X

ANNUAL

ADMINISTRATION REPORTS

OF

THE FOREST DEPARTMENT

(SOUTHERN AND NORTHERN CIRCLES),

MADRAS PRESIDENCY,

FOR THE

OFFICIAL YEAR

1887-88.

MADRAS:
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRESS.
1888.

107

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE SOUTHERN CIRCLE, MADRAS,

FOR THE YEAR 1887-88.

By J. W. CHERRY, Esq., Acting Conservator of Forests.

CHAPTER I.

Introductory Remarks.

Colonel I. Campbell Walker was in charge of the Circle for nine months of the year. He was absent on three months' privilege leave from 24th September 1887, during which period Mr. J. W. Cherry officiated as Conservator.

Colonel Walker visited Tinnevelly, Madura, Trichinopoly, Tanjore, and Coimbatore districts, but inspection in the last named was curtailed, owing to the Collector's deputation to Coorg, the Southern charge officer's departure on privilege leave, and the Northern charge officer being engaged on demarcation in the extreme north of the district.

The inspection in Tanjore was confined to the District Forest office.

Mr. Cherry inspected the North Malabar, South Malabar, and South Canara divisions.

The inspection notes generally show, that the District officers are fully acquainted with the needs of their districts, and are doing their best to meet demands. But the pressure upon them, due in many cases to over large charges, and to so much time being required for settlement and organization, still continues to be very great, and consequently works, which might otherwise be attended to personally, are left rather too much to subordinates, and those subordinates at present, are not generally up to the standard required. Matters are improving however, and reliable subordinates are on the increase.

There is still a want of uniformity in the several District and Range offices, and there have been frequent complaints that the Forest Code provisions were not always suited to our scattered operations, and that the offices required strengthening.

With a gradual increase in the number of Divisional charges, there will be less ground for such complaints.

2. The time spent in camp by the District Forest-officers during the year is reported as follows :—

ABSTRACT A.—Movements of District Officers.

District.	Name of officer in charge.	Number of days in charge.	Number of days spent in camp.	Percentage of time spent in camp.	Reasons for absence from charge.
Chingleput	Mr. T. Muhammad Ali Sahib ..	366	195	53·3	
North Arcot	,, T. Sheffield	274	106	38·7	Privilege leave from 1st
Do.	,, W. Carroll	92	53	57·6	May to 31st July.
South Arcot	,, H. L. Wooldridge ..	353	160	45·3	Privilege leave from
Do.	,, C. Eber Hardie	13	..	..	19th March.
Salem	,, J. W. Cherry	221	115	52·0	Officiating Conservator.
Do.	,, W. Carroll	145	71	48·9	
Trichinopoly and Tanjore..	,, A. W. C. Stanbrough ..	366	180	49 2	
North Coimbatore	,, W. C. Hayne	346	202	58·4	Leave from 22nd June
Do.	,, H. J. Porter	20	..	..	to 11th July.
South Coimbatore	,, H. J. Porter	339	152	44·8	Privilege leave from 5th
Do.	,, V. S. Guranada Pillai ..	27	..	..	March.
Madura	,, C. Somers Smith	304	226	74·3	
Do.	,, H. A. Gass	62	18	29·0	Return from furlough.
Tinnevelly	,, C. E. Brasier	366	199	54·4	
North Malabar	,, R. W. Morgan	128	54	42·2	On furlough from 14th
Do.	,, C. Eber Hardie	238	94	39·1	March 1887.
South Malabar	,, G. Hadfield	366	155	42·3	
South Canara	,, T. P. Peake	366	155	42·3	

The average time in camp, was about half the time in charge.

Mr. Somers Smith exceeded the average considerably. The Officers of North and South Malabar divisions do not, from the nature of their charges, require to spend such long periods away from head-quarters as other District Forest-officers do.

CHAPTER II.

AREAS AND BOUNDARIES.

3. *Areas.*—The following abstract exhibits, in the form required by the Government of India, the changes that took place during the year in the various classes of State forests :—

ABSTRACT B.—Classes of Forest.

Class of forests.	Area on 31st March 1887.	Added during the year 1887-88.	Excluded during the year 1887-88.	Difference.	Area on 31st March 1888.	Source or cause of increase or decrease.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	
A. Reserved Forests under Act V.	1,838	564	..	+ 564	2,402	560 square miles from D, 4 square miles due to rectification of areas by actual survey.
B. Reserved Forests under previous rules.	280	..	36	— 36	244	35 square miles to D; 1 square mile due to rectification of areas.
C. Leased Forests	..	..	..	..	..	
D. Reserved Lands ..	3,655	2,088	590	+ 1,498	5,153	35 square miles from B; 15 square miles from E; 1,209 square miles from F; 829 square miles added by rectification of areas. 560 square miles to A; 30 square miles deducted by rectification of areas
E. Other Forests	1,099	166	15	+ 151	1,250	166 square miles from F; 15 square miles to D.
F. Unclassed Forests and waste lands.	..	..	..	..	..	
Total ..	6,872	2,818	641	+ 2,177	9,049	

The large additions to D. Reserved Lands, by rectification of areas, is due to a more careful estimate of the large blocks notified in North Coimbatore. The deductions under the same head, are chiefly due to exclusion of areas during settlement. Leased

Forests have not been separately classified in this office hitherto, but are included in other classes as follows :—

Under A. Reserved Forests—				
Tekkadi—South Coimbatore	26	square miles	under section	25
Nellikutta—South Malabar	3	do.	do.	25.
Under D. Reserved Lands—				
Nine blocks at Nilambúr—South Malabar.	17	do.	do.	4.
Total leased ...	46	square miles.		

Though the Forest Act provides for Leased Forests being declared Reserved Lands or the rules of Reserved Forests being applied to them, the Acting Conservator is not sure that they can be classed as declared "Reserved Forest" under Chapter II of the Act.

4. As regards the following classes—

B Reserved Forests under previous rules.
E Other Forests.
F Unclassed Forests, and waste lands,

there has been some confusion. The Government, in their review on last year's Report, treated all under B. and E, as forest under the control of this department, while the Government of India, in their review of the previous year, treated the former as "Reserved Forests." As a matter of fact, both are merely forests of which some account or record has been taken, with view to early proposals for reservation, and they should properly belong to class F. "Unclassed Forests and waste lands," or, as considered in our books, merely "Unreserved lands." Of such unclassed or "Unreserved Lands," we have no sufficiently correct estimate of what portion is covered with forest—neither can it be shown this year what extent is likely to be brought under reservation. It is hoped that fairly correct figures may be obtained for the next Report.

5. In the meantime, the following abstract exhibits the district areas, the extent of occupied lands, and the proportion of existing reserves to unoccupied land. The extent of cultivation (column 3) is made up of known patta cultivation, and a proportion for private estates—where not known. The figures for private forests (column 4), are taken from an estimate prepared in 1886 for the Government of India.

The figures for Government forests (column 6), with the exception of Salem, are made up of existing reserves, and all areas that, at present, are noted for reservation. Excepting Salem, they do not represent, as intended, the whole extent of forest-covered land at the disposal of Government.

The Salem figures are fairly correct, and if we apply the Salem proportion to the whole, the totals of columns 6 and 7 would be 15,600 of "Forest," and 12,000 of "Bare," which is nearer the mark. The district figures in these two columns, it is hoped, will be rectified next year.

ABSTRACT C.—District Areas, and Forest Reserves, in square miles.

District.	District surveyed area, as per Board's Proceedings, dated 11th February 1888, No 64.	District area, how composed.				
		Occupied land of all classes.			Unoccupied, or lands at the disposal of Government	
		Cultivated.	Uncultivated.		Forest.	Bare
			Forest.	Bare.		
1	2	3	4	5	6	7
Chingleput	2,842	1,067	25	533	210	1,004
North Arcot	7,497	1,802	1,000	1,897	911	1,887
South Arcot	5,140	2,037	153	..	1,068	1,882
Salem	7,724	2,683	508	600	2,226	1,707
Trichinopoly	4,732	2,161	237	1,082	326	926
Tanjore	3,654	1,970	10	1,005	60	609
Coimbatore	7,860	3,504	21	335	2,518	1,482
Madura	8,658	2,821	500	3,608	692	1,037
Tinnevelly	5,387	2,692	131	1,110	607	847
Malabar	5,584	1,218	27	..	853	3,486
South Canara	3,902	548	88	4	1,020	2,242
Total ..	62,980	22,503	2,700	10,177	10,491	17,109

District.	Lands at the disposal of Government; how classed				Total of forest reserves.	Percentage of forest reserve to district area (Col. 2).	Percentage of forest reserve to land at the disposal of Government (Cols. 6+7).
	Unreserved lands.	Reserved lands.	Reserved lands under settlement.	Reserved forests.			
	8	9	10	11	12	13	14
Chingleput	1,076	24	26	88	138	4·9	11 4
North Arcot	1,936	179	488	195	862	11·5	30·8
South Arcot	2,716	..	172	62	234	4 6	7·9
Salem	2,928	202	248	560	1,010	13·1	25·7
Trichinopoly	1,017	56	135	44	235	4·9	18 8
Tanjore	650	..	19	..	19	·5	2·8
Coimbatore	1,484	1,381	470	665	2,516	32·0	62 9
Madura	1,164	75	187	303	565	6 5	32·7
Tinnevelly	865	..	302	287	589	10·9	40·5
Malabar	3,972	48	162	157	367	6·6	8·5
South Canara	2,242	886	93	41	1,020	26·1	31·3
Total ..	20,045	2,851	2,302	2,402	7,555	12·0	27·5

From the above abstracts it will be seen, that we have added during the year 564 square miles of Reserved Forest, and 1,498 square miles of Reserved Lands, bringing the total "Reserves" up to 7,555 square miles, which is 12 per cent. of the district areas, and 27 per cent. of the "lands at the disposal of Government" This is an improvement on last year, when only 464 square miles of both classes of reserves were added.

Coimbatore shows a proportion far in advance of the other districts, but this is due to almost entire taluks in the Northern Division, being placed under Reserved Lands, pending selection of compact blocks for more perfect reservation.

It is probable, as far as can be judged at present, that, for the whole Circle, the proportion of reserves when completed, will reach 10,000 square miles, or about 16 per cent. of district areas, which will be about 36 per cent. of the present land at the disposal of Government, and about 64 per cent. of a revised estimate of the forest-clad portion of it.

It has not been decided to work up to any particular proportion, but it will be seen that the districts of Coimbatore, and Tinnevelly, have already exceeded 36 per cent. of the land at Government disposal, while Madura, South Canara, North Arcot, and Salem, are not far behind. Chingleput, South Arcot, Tanjore, and Malabar, have still much to make up.

6. *Reserved Forests* (*see Appendix* 59-A).—The area constituted Reserved Forests up to date, is as follows:—

ABSTRACT D.—Reserved Forests (see appendix 59-A) in square miles.

Districts.	Up to 1886-87.	During 1886-87.	During 1887-88.	Total.
Chingleput	27·45	36·51	23·84	87·80
North Arcot	194·55	..	·07	194·62
South Arcot	2·75	..	59 08	61·83
Salem	..	171·96	387·85	559·81
Trichinopoly	5·20	26·21	13·10	44·51
Tanjore	..	..	·03	·03
North Coimbatore	23 70	74·99	..	98·69
South Coimbatore	565·91	..	..	565·91
Madura	284·37	2·61	16·00	302·98
Tinnevelly	286·81	..	..	286·81
North Malabar	118·44	..	..	118·44
South Malabar	15·56	..	23·76	39·32
South Canara	1·38	..	40·00	41·38
Total ..	1,526·12	312·28	563·73	2,402·13

The total area of "Reserved Forests," is now 3·81 of the district surveyed areas. By far the largest addition in this class, was made in the Salem district. In other districts, areas are being settled, and remarks showing progress will be found in the next para.

7. *Reserved Lands under settlement (included in Appendix 59-D.)*—The following abstract shows the progress of settlement up to the end of the year, in blocks and square miles:—

ABSTRACT E.—Forest Settlement.

District.	Under settlement up to 1886-87.		Added during 1886-87.		Added during 1887-88.		Total under settlement.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
1	2	3	4	5	6	7	8	9
Chingleput	14	87	6	11	10	15	30	113
North Arcot	36	269	1	100	46	314	83	683
South Arcot	33	191	19	29	18	14	70	234
Salem	74	674	2	23	18	111	94	808
Trichinopoly	24	50	17	129	..	..	41	179
Tanjore	1	..	2	7	17	12	20	19
North Coimbatore	6	99	..	..	2	470	8	569
South Coimbatore	9	566	..	..	..	..	9	566
Madura	68	287	8	95	14	108	90	490
Tinnevelly	10	539	..	..	29	50	39	589
North Malabar	12	261	1	..	..	..	13	261
South Malabar	6	40	..	..	10	19	16	59
South Canara	11	73	9	33	1	28	21	134
Total ..	304	3,136	65	427	165	1,141	534	4,704

	Finally settled up to 1886-87.		Finally settled during 1886-87.		Finally settled during 1887-88.		Total finally settled.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
	10	11	12	13	14	15	16	17
Chingleput	5	27	6	36	3	24	14	87
North Arcot	33	195	..	..	..	..	33	195
South Arcot	1	3	..	..	13	59	14	62
Salem	..	..	25	172	37	388	62	560
Trichinopoly	9	5	5	26	7	13	21	44
Tanjore	..	..	..	..	2	..	2	..
North Coimbatore	5	24	1	75	..	..	6	99
South Coimbatore	9	566	..	..	..	..	9	566
Madura	60	284	8	3	3	16	71	303
Tinnevelly	5	287	..	..	..	..	5	287
North Malabar	6	118	..	..	..	..	6	118
South Malabar	5	16	..	..	1	24	6	40
South Canara	6	1	..	..	2	40	8	41
Total ..	144	1,526	45	312	68	564	257	2,402

The progress of the balance still under settlement is shown in the following abstract:—

ABSTRACT F.—State of Settlement Balance.

District.	Of those notified in 1884-85.		Of those notified in 1885-86.		Of those notified in 1886-87		Of those notified in 1887-88.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
1	2	3	4	5	6	7	8	9
Chingleput	..	..	..	..	6	11	10	15
North Arcot	..	..	..	..	4	174	46	314
South Arcot	..	..	19	129	19	29	18	14
Salem	11	107	1	15	2	15	18	111
Trichinopoly	..	..	..	..	20	135	..	..
Tanjore	..	..	..	..	1	7	17	12
North Coimbatore	..	..	..	..	..	..	2	470
South Coimbatore	..	..	..	..	..	..	..	..
Madura	..	..	..	..	5	79	14	108
Tinnevelly	..	..	5	252	..	..	29	50
North Malabar	3	103	3	40	1	..	..	..
South Malabar	..	..	..	..	..	..	10	19
South Canara	..	..	3	35	9	30	1	28
Total ..	14	210	31	471	67	480	165	1,141

	Total balance.		Remarks on the balance.					
			Settled and reported on.		Settled but not reported on.		Settlement proceeding.	
	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.	Blocks.	Area.
	10	11	12	13	14	15	16	17
Chingleput	16	26	9	15	..	..	7	11
North Arcot	50	488	4	174	15	168	31	146
South Arcot	56	172	33	143	5	15	18	14
Salem	32	248	10	101	4	36	18	111
Trichinopoly	20	135	9	56	11	79	..	..
Tanjore	18	19	14	7	4	12	..	..
North Coimbatore	2	470	..	..	..	..	2	470
South Coimbatore	..	..	..	..	..	..	..	..
Madura	19	187	3	41	15	136	1	10
Tinnevelly	34	302	5	252	27	47	2	3
North Malabar	7	143	..	..	7	143	..	..
South Malabar	10	19	..	..	..	..	10	19
South Canara	13	93	4	5	7	48	2	40
Total ..	277	2,302	91	794	95	684	91	824

From the above abstracts it will be seen that 1,141 square miles were put under settlement, as against 427 in the previous year, and that 564 were finally settled, as against 312 in the previous year, showing a marked improvement in the progress towards Reserved Forests.

Of the balance, 2,302 square miles, awaiting final settlement, it will be seen that 794 have been practically settled and reported on, and were merely awaiting Government sanction to notifications. This leaves 1,508 square miles under settlement, of which 684 have been settled as far as the Settlement-officers are concerned, but have not been reported on, pending limit of appeal time, or disposal of appeals in the higher courts.

There were, therefore, only 824 square miles in the hands of Settlement-officers at the end of the year, and if to these we propose and add for settlement, all the present remaining Reserved Lands, viz., 2,851 square miles, we shall still have 3,675 square miles of work for Settlement-officers to do, which, at the present rate of say 500 square miles a year, will occupy them for seven years. As however, the outturn of work is yearly improving, the Acting Conservator thinks he may estimate five years more to complete settlement of all present Reserved Lands.

The Special Settlement-officers were Deputy Collector Mr. A. M. Jones, who had settlement in North Arcot, South Arcot, Salem, Trichinopoly and Tanjore, representing

1,522 square miles; and Deputy Collector Mr. A. Pinto, who had settlement in Chingleput, Madura, Tinnevelly and Coimbatore, representing 1,025 square miles.

In Malabar the 186 square miles under settlement during the year, and in South Canara the 133 square miles, were entrusted to Revenue divisional officers.

It will be noted from abstract F, that 210 square miles put under settlement as far back as 1884-85, and 471 square miles in 1885-86, still await disposal. This is due to disputes in Civil Courts, and appeals against Forest Settlement officers' orders.

The latter reason is due to the High Court's recent ruling, permitting an appeal from the District Court under section 10 of the Act. This causes great delay in final settlement, but secures a more thorough investigation, which, in many cases, was desirable in the interests of Government.

The following important appeals from District Courts' decisions, were among those awaiting disposal at the end of the year:—

Districts.	Forests.	District Courts' decision.	Estimated value of property.
			Rs.
Salem	Periakalroyen hills ...	In favor of Government ...	3,00,000
North Malabar ...	Padri	Adverse to Government ...	1,00,000
	Do.	Do. ...	35,000
	Kanot	Do. ...	3,00,000
	Peria	Do. ...	3,00,000

The Special Settlement-officers have worked diligently; and Forest-officers attending, have, considering the complex nature of many of the claims, and the little legal knowledge and assistance they have had, done remarkably well in defending the rights of Government.

8. *Reserved lands not under settlement (included in Appendix 59-D).*—The following abstract shows the additions and transfers in this class of Reserved Lands. It is thought wise to separate them from those under settlement (dealt with under the preceding head), for they form the first step towards constitution of Reserved Forests (all forests being declared "Reserved Lands" either before or at the time of putting them under settlement), and it is easier to note the progress made in this initiatory stage.

The balance area under this abstract, added to the balance area of the previous one, make up the total area balance of Reserved Lands, as shown in the appendix 59-D.

ABSTRACT G.—Reserved lands not under settlement (included in Appendix 59-D) in square miles.

District.	Up to 1886-87.	Added during 1886-87.	Added during 1887-88.	Total.	Transferred to settlement up to 1886-87.	During 1886-87.	During 1887-88.	Total.	Balance remaining as simple reserved lands.
Chingleput	112	11	14	137	88	11	15	114	23
North Arcot ..	717	102	42	861	269	100	314	683	178
South Arcot ..	191	29	14	234	191	29	14	234	..
Salem	861	27	122	1,010	674	23	111	808	202
Trichinopoly ..	37	163	35	235	50	129	..	179	56
Tanjore	7	..	12	19	..	7	12	19	..
North Coimbatore ..	1,108	..	824	1,932	99	..	470	569	1,363
South Coimbatore ..	584	..	..	584	566	..	..	566	18
Madura	418	93	54	565	287	95	108	490	75
Tinnevelly	604	..	— 13	591	539	..	50	589	2
North Malabar ..	277	4	..	281	261	..	..	261	20
South Malabar ..	40	..	46	86	39	..	19	58	28
South Canara ..	77	33	910	1,020	73	33	28	134	886
Total ..	5,033	462	2,060	7,555	3,136	427	1,141	4,704	2,851

It will be seen from the above abstract, that 2,060 square miles of "Reserved Land" were added during the year, as against 462 last year, showing improvement in progress under this head also. North Coimbatore and South Canara were the

most active in bringing areas under protection as Reserved Lands, but the boundaries given were very general ones, and there will be considerable differences found in the areas when we come to select from them for Reserved Forests. In South Coimbatore, and in North Malabar alone, no fresh reserves were notified. In the former it is not likely that any fresh selections will be made, but in the latter we have two or three more in view, including the best of the sholas on the Brammaghiri hills which need protection.

It still remains a question whether, after completion of "Reserved Forest" selections, the remaining reserved lands will be treated as a separate class. It is not improbable that they, together with other areas from unreserved lands, will be set apart as village forests. Our chief concern at present is with the areas to be established as State "Reserved Forests."

9. *Unreserved land—(includes the forests shown in Appendices 59-B and 59-E).*—Abstract C shows the area of Unreserved lands (that is, lands not reserved, and remaining at the disposal of Government) to be 20,045 square miles, and the remarks with that abstract will show, that of this area, we may consider that 8,100 square miles (that is, the probable revised estimate of 15,600 total Government forests, less 7,555 already reserved) are covered with forest (including scrub, which, if protected, would develop into forest), and it remains to be seen how much of this unreserved balance of Government forest will yet be brought under reservation.

According to Appendices 59-B and E, we have still remaining of forests recorded for reservation, 1,494 square miles in the following districts:—

Chingleput	18·25
South Arcot	834·05
Trichinopoly	·76
Tanjore	9·50
South Coimbatore	2·05
Madura	127·48
Tinnevelly	16·91
North Malabar	335·00
South Malabar	150·23
Total ...	1,494·23

But it has been previously stated that these two appendices are misleading, and should be discontinued.

The figures are obviously wrong, and in many cases merely represent the balance of areas which it was *originally intended* to propose, and from which reserves have since been selected and disposed of. Salem is not mentioned at all, though the District Forest-officer reports about 250 more square miles to be selected (bringing the total close up to the area required in that district for reservation, as estimated in Mr. Cherry's special report recorded in G.O., No. 668, dated 23rd May 1884), and in North Malabar the 335 square miles shown, cannot be now easily identified.

In South Arcot, many proposals have recently been submitted, some of which were returned for a rectification of boundaries, which were found to be too intricate. The area of 150 square miles in South Malabar represents the recent purchase by Government of the valuable Amarapolliem estate for Rs. 42,000, which is expected to prove a very important addition to our reserves, and will be notified as soon as possible.

It is only necesary to add, that selections were proceeding in all districts, and are now approaching completion, the Collectors of North Arcot and South Canara having lately reported that they do not propose any further additions. It must be observed, however, that in some districts, notably Salem, South Canara, and Malabar, it may be necessary to supplement present reserves, in the event of certain appeals being decided against Government.

10. *Boundaries.*—The Revised allotment for the year was Rs. 15,628, of which Rs. 11,613 was spent on 1,701 miles of boundary. The short expenditure was chiefly in North Malabar and North Coimbatore; in the former it was due to reserves awaiting

result of appeals, and in the latter to selections not proceeding as fast as was anticipated. The following lengths taken in hand, are reported :—

	Miles.	Cost. Rs.	Average cost. Rs. A. P.
Up to 1886-87	3,178	35,247	11 1 5
During 1886-87	1,134	8,735	7 11 2
„ 1887-88	1,701	11,613	6 13 2
Total ...	6,013	55,595	9 3 11

District Forest-officers have not, with one or two exceptions, given the entire lengths of all their reserve boundaries, so that what has still to be demarcated cannot be shown. By an estimate based on averages in the Salem district, the Acting Conservator finds that roughly, close on 10,000 miles of existing reserve boundaries have still to be attended to. North Arcot takes the lead this year in the number of miles demarcated, closely followed by Salem,—North Coimbatore and Madura coming next.

A larger total sum on a longer total length of line was spent, than in the last year, and the average cost was reduced ; but the Acting Conservator is not satisfied with the progress of this very important work, or in the way in which it has generally been done. It has, as a rule, been left too much to subordinates, and the consequence is, some unreasonable, tortuous, and badly demarcated lines, while separate accounts for the several localities have been so seldom correctly kept, that it is impossible, from the District Forest officers' figures (with one or two exceptions), to arrive at reliable figures as to the length of line or expenditure thereon.

The estimate of the length of boundaries is constantly varying. Some lines are merely demarcated (with flags, cairns, pillars, cut stones, &c., as the case may be), while others are cleared at the same time, and in some, demarcation has had to be renewed, while *all* will have to be cleared periodically. Again, some District Forest-officers have included cost of laying and maintaining reserve *interior* lines, as also other casual lines which have nothing to do with reserves, for both of which, accounts should have been kept separately. These difficulties are receiving attention, and the Acting Conservator hopes the figures under this head will become more exact each year. In the meantime, a uniform system of marking and recording forest boundaries is now being discussed and decided on.

In Chingleput—48,260 palmyrahs were planted during the year along about 13 miles of reserve boundaries.

In Salem—The Government claimed forest boundary of the Vellaikuttar Jaghire, was recleared. Sixteen out of 18 owners of private forest cleared their boundary under orders.

In Trichinopoly—The ryots of patta fields adjoining Government forests in the Udayárpálaiyam range, undertook gratis, a rough demarcation of 14 reserved lands, by clearing a path all round, and planting banyan cuttings along it.

In Tanjore—The boundaries of all the blocks notified under settlement, were demarcated with stones by the Madras Revenue Survey Department.

In South Coimbatore—Demarcation was tried in certain ranges, by planting cuttings of the Kiluvai tree (*Proteum caudatum*), and piling a heap of stones around the base. It is reported that in several places the cuttings have taken root, and that the plan is fairly successful.

Patta holdings in three villages in Reserved Forests were demarcated during the year. Towards the latter part of the year, the District Forest-officer (Mr. Porter) with Mr. Bensley (on behalf of the Travancore Government), completed the clearing and demarcation of the Coimbatore-Travancore boundary line, and submitted a full report.

In Madura—A great deal of clearing of boundaries was done for the Government of India Survey Party. Two Surveyors were specially deputed to assist, and to instruct the Forest subordinates.

In all the above, as well as the other districts, the most general form of demarcation has been by pillars, consisting of posts surrounded by cairns of stones or earth, the lines being afterwards cleared in various ways, and various breadths.

CHAPTER III.

Surveys, Working Plans, and Annual Plans of Operations.

11. The sum provided in the Revised estimate was Rs. 7,669 of which Rs. 5,864, was spent. The short expenditure was chiefly in South Arcot and Malabar, owing to the delay in reserve settlement.

Surveys.—Proposals for arrangement of a Special Forest Survey Branch have more than once been under discussion during the year, but owing to the paucity of Forest-officers, no practical conclusions were arrived at.

Since the close of the year however, it has been proposed, in conference with the Revenue Secretary and the Surveyor-General to the Government of India, to employ the Survey of India Party, now on general survey in this Circle, exclusively on Forest surveys.

If this is done, our survey progress will be rapid, and we shall have enough to do to keep pace in preparing our reserves for the survey. In the meantime, the above-mentioned Survey Party has been assisting us, when convenient to them in connection with their general work, and up to the end of the year had completed the following for our reserves :—

In Madura—Topography on the one-inch scale (including overlaps) of 245 square miles.

Topography on the four-inch scale (including overlaps) of 8 square miles.

Mostly in Tinnevelly—Triangulation in advance, of 1,000 square miles.

With the exception of three reserves in Madura, no boundary traverses were completed. No maps have yet been furnished.

Quite recently, a bill from the Government of India was received for Rs. 11,000, to be included for the above survey work in our accounts for the year. No details were given, and as it appeared to include cost of surveying for the Travancore boundary, further information has been called for, pending which, the amount is not shown in the Examiner's summary of expenditure for the year.

There has been some confusion and misunderstanding as regards the forest work of this Survey Party, owing to its not being clearly understood from whom the Superintendent of the party should take his instructions.

Colonel Walker appears to have asked for one-inch surveys for *general* use, and four-inch for *special* use (working plans, &c.,), probably thinking, that the one-inch topographical survey would be included in the general work of that class, which the party were primarily sent to complete in this Presidency, and which would (except the reserve boundary traverses) not be charged to this department. As it is, the party have only taken up one reserve on the four-inch scale, and the rest are all on the one-inch scale. These matters are being considered, and a clear programme will be arranged for the party from this office in future.

12. The surveys by Forest-officers, assisted by one temporary surveyor in each of the districts of Salem, Trichinopoly, Tanjore, South Coimbatore and South Canara, were as follows :—

In Chingleput—The southern portion of the Kambakam hill reserve boundary was continued, but the progress was slow, owing to the ill-health of the Forester engaged on the work.

In Salem—The boundary survey of four Reserved Forests, covering an area of 12·61 square miles, with an outline of 32 miles, was completed.

In Trichinopoly—The outline of 5 reserves, embracing an area of 9·86 square miles, was completed.

In Tanjore—The Vettangudi reserve, 3 square miles, was surveyed.

In South Coimbatore—3·73 square miles of forests on the plains in No. II, Pollachi range, were surveyed, and divided into four blocks and 14 compartments for the purpose of working plans.

In Tinnevelly—The survey of a block of forest (area 3·73 square miles) in the Pápanásam hills was commenced. A chain survey of a small area of ·85 square miles in the Kudiraimalai Teri was also made.

In South Canara—Plane table and compass rough surveys were being made of the reserved lands selected for settlement.

No great confidence can be placed on these haphazard surveys. There is a want of uniformity and completeness about them, and the men employed are not always sufficiently qualified.

The areas reported as surveyed up to the end of the year are as follows :—

	SQ. MILES.	Cost. RS.	Average per square mile. RS. A. P.
Up to 1886-87	1,130	3,387	2 15 11
During 1886-87	32	2,727	85 3 6
Do. 1887-88	117	5,864	50 1 11
Total ...	1,279	11,978	9 6 0

Deducting the total area surveyed, from 7,555 square miles (the whole area of our existing reserves), shows that we have still over 6,000 square miles of existing reserves to be surveyed.

The District Forest-officers give no particulars of the details already surveyed, but the low average would show, that most of the surveys are merely boundary traverses, and do not include topographical features.

A complete Forest Atlas for the Circle showing Reserved Forests, proposed Reserved Forests, and Reserved Lands, was prepared during the year.

13. *Working Plans.*—For anything like satisfactory working plans, it is necessary that reserves should first be settled and surveyed, to be followed by a careful division into compartments, and the existing stock enumerated and valued, all of which preliminaries take considerable time.

Our principal delay at present is due to want of surveys, and to so much of the time of the establishment being taken up still with organization, selection, and settlement.

Even at the best, it is not thought possible for District Forest-officers alone, to prepare their working plans, and so soon as the controlling grades are strong enough, proposals will be made for a special working plan branch.

In the meantime, the working of reserved areas is being brought more under control and system generally, and the people are being encouraged, for the present, to resort to unreserved areas as much as possible.

In Chingleput, experimental fellings were made in the Kambakam and Ambakam Reserves, and in the Meyúr plantation, mainly in connection with data for preparation of plans.

Pulrambakam and Tandarai reserved forests were divided into compartments.

In North Arcot, the provisions of the working plan, for the plantations referred to in the last Annual Report, were observed as far as possible. Endeavours were being made by the District Forest-officer to give effect to the Conservator's suggestions regarding the formation of the Mámandúr and Ambúr working circles.

Stock was taken of 11,927 sandalwood trees on the Javadis, making in all 17,769 trees counted up to the end of the year.

About one-third of the Pullapanád was thus finished, and the work was still being pushed on.

In Salem, the felling provided for in the Morur working plan was given on contract, but the work was not completed at the end of the year, owing to the unhealthiness of the locality, and the consequent difficulty of procuring labor.

A preliminary working plan for the Vadagampatti portion of the Kanavoipudur Reserve was prepared by the District Forest-officer under orders, but the Acting Conservator thinks that there is little use in preparing a separate working plan for so small an area, which will eventually form a mere compartment of a larger area when settlement is more complete.

In Trichinopoly, the fellings in the Cauvery South Bank plantation were regulated during the year, in accordance with the preliminary working plan approved by the Board of Revenue in their Proceedings, dated 16th July 1887, Forest No. 396, and also by Government. The outturn is satisfactory, being 146 tons realizing Rs. 502, as against 164 tons for Rs. 492 in the estimate.

The District Forest-officer (Mr. Stanbrough) has matured another working plan for the hill forests of the Manapárai sub-division. Its area is about 21 square miles, and its provisions will be considered during the current year.

In South Coimbatore, preliminary working plans for the Chinnar working circle and the Nóyil-Vellengiri working circle, in the Bolampatti range, were forwarded to Government.

The result of the year's felling in the Sholakarai block, compared with the working plan, showed that the I. Fuel, and the bamboo series, were up to the estimate, but that the outturn in the II. Fuel series was not so good, and that the yield altogether was equal to about Rs. 2-2-0 net per acre per annum.

In Madura, Mr. Somers Smith submitted working plans for Gundan shola, and the other plantations at Kodaikánal, but the Conservator had to return them for revision, as also the working plan for Alagar hill reserved forest, which could not be accepted owing to serious errors in areas, &c.

In South Malabar, the proposed working plan of the Wálayár Fuel Reserve was still delayed for want of information regarding the correct areas of the compartments.

CHAPTER IV.

Protection and Improvement.

Section 1.—*Reserved Forests.*

Section 2.—*Other Forests.*

(a) Establishment Ranges and Beats.

14. The sanctioned establishment for the Circle consisted of—

—	For the year 1886-87.	For the year 1887-88.	Difference.
Permanent.			
Conservators	1	1	..
Deputy Conservators	8	7	— 1
Assistant do.	5	6	+ 1
Sub-Assistant do.	7	6	— 1
Rangers	30	30	..
Foresters	73	73	..
Forest guards	357	359	+ 2
Clerks	54	88	+ 34
Peons	75	108	+ 33
Temporary.			
Supervisors	34	51	+ 17
Surveyors	1	6	+ 5
Draughtsmen	..	2	+ 2
Depôt-keepers	11	11	..
Watchers	274	649	+ 375
Tannahdars	324	307	— 17
Lascars	4	23	+ 19
Gardeners	16	96	+ 80
Clerks	41	7	— 34
Peons	51	18	— 33
Total Officers	1,366	1,848	+ 482

There was also a large establishment of Permit Issuing and Recovering officers, who were paid commission on collections, and who are not shown in the above list.

The Conservator's charge was 13 Divisions of 62,980 square miles of area, including 7,555 square miles of reserves. A District Forest-officer's average charge was 4,845 square miles of area, including 581 square miles of reserves. A Range officer's average charge was 913 square miles of area, including 109 square miles of reserves, and a Forest guard's charge was 175 square miles of area, including 21 square miles of reserves.

Thirty-nine out of the 69 forest ranges were in the charge of Foresters, for want of sufficient Forest Rangers, and this was a constant ground for complaint from the District Forest-officers.

The only additions to our Permanent field establishment during the last five years has been—

1 Controlling officer,	10 Foresters,
2 Sub-Assistants,	37 Guards,

although almost the whole of our 7,555 square miles of "reserves" have been brought into existence during that period, and though our revenue collections have risen from Rs. 5,45,658 to 8,10,197. The consequence has been an extension of the Temporary establishment.

Both the Madras Government and the Government of India, have recently considered the much needed extension of our Permanent, controlling, executive, and protective staff, and favorable proposals have been made.

(*b*) *General Protection and Breaches of Forest Laws* (*Appendix* 63).

15. That protection is improving, may be gathered from the increase of revenue under permit collections, from the improvement in the growth of forest reserves—as vouched for by all District Forest-officers,—and from the figures for forest offences detected and reported.

ABSTRACT II.—Forest offences (see Appendix 63).

Years.	Brought forward from previous year.		Cases added.		Cases disposed of							Balance.	
	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Percentage of cases withdrawn.	Percentage of cases compounded.	Amount realized.	Percentage of cases acquitted.	Percentage of cases convicted.	Cases.	Persons.
									Rs.				
1886-87 ..	94	..	1,339	..	1,277	2,754	..	36	2,350	19	45	156	..
1887-88 ..	156	..	1,644	..	1,627	4,305	1	36	3,271	14	49	173	..

The percentage of cases compounded, as compared with last year is the same. The percentage of convictions, for those tried by the Magistracy, which was 45 out of the 64 per cent. last year, has risen to 49 out of the 63 per cent. this year. The offences compounded by Forest officers realized Rs. 3,271, or an average of Rs. 2-1-3 per person accused, as against Rs. 3-0-6 per accused in the previous year, showing also an average *per case* of Rs. 5-10-1 against Rs. 5-1-9.

The largest number of cases is reported from Salem and Trichinopoly, due in the former chiefly to an increase during the year of the number of reserve watchers employed.

(*c*) *Forest Fires and Fire-protection* (*Appendix* 62).

16. The Revised Budget allotment for the year was Rs. 24,820. The actual expenditure amounted to Rs. 20,712. The short expenditure was chiefly in South Arcot, Salem and Madura, due to a smaller addition to the specially-protected area than was anticipated.

An endeavour is made to show the result of fire-protection in the following abstract. There has been much confusion in previous figures, and it is thought best to now deal only with the areas in our *reserves*.

It may be taken for granted, that all areas not reserved, are burnt over every year. As a matter of fact in our reserves all areas are more or less protected from fire, the majority, with the ordinary establishment, aided by sundry warnings and penalties; and a portion, by special expenditure on fire traces and extra establishment during the dry season. The two classes are therefore shown separately in the abstract. As a rule, no expenditure is allowed on areas that are not formally brought on No. 62 Return as fire-traced and specially protected; but some District Forest-officers have been in the habit of incurring expenditure on rewards and fire-watchers for the larger and general class of areas, and charging them to the specially-protected portion. In future, if such expenditure is incurred, it should be shown under its proper class.

This abstract is satisfactory as far as it goes, but it gives no idea of how long any *particular* area or proportion has escaped fire.

This can be shown in future, by bracketing together, before the general percentage which escaped, the percentage of areas which have escaped for one year, for two years, for three years, and so on; but these particular percentages can only be found by a system of fire-record maps, concerning which, the Acting Conservator has already given some attention, and a note from the Inspector-General on the subject will be found recorded in Revenue Board's Proceedings, No. 525, of 15th September 1887. These record maps can only be properly prepared, after the reserves have been surveyed.

ABSTRACT I.—Fire-protection (see Appendix 62) in square miles.

—	UP TO 1886-87		DURING 1886-87			DURING 1887-88.			Total cost per square mile.
	Forest reserves attempted	Total cost per square mile.	Attempted	Percentage which escaped	Average cost per square mile.	Attempted	Percentage which escaped	Average cost per square mile.	
Fire-traced ..	906	48	1,081	96	16	1,250	99	16	65
Untraced	4,127	..	4,414	57	..	6,305	69	..	..
Total reserved ..	5,033	..	5,495	..	..	7,555	..	..	..

From the above it will be seen, that almost the same addition (169 square miles) was made to the fire-traced area as in last year (all the districts except Salem, Tanjore and North Coimbatore contributing), and that the average cost per square mile of the area successfully protected, did not vary; while the percentage of successful area increased from 96 to 99 per cent.

The largest percentage of fires occurred in North Malabar, followed by Tinnevelly. No fires are reported in Salem, South Coimbatore and South Malabar. As regards untraced areas, the figures are roughly approximate, and if District Forest-officers' estimates are to be relied on, they show that we have improved the general protection from 57 per cent. of successes during 1886-87, to 69 per cent. during the year under report.

The Acting Conservator urges the importance of so selecting and marking reserve boundaries, that the lines may also prove suitable for the fire-tracing. In too many cases there will be required a cleared fire trace as well as a cleared boundary, which at least entails double expenditure.

(*d*) *Grazing.*

17. The Revised revenue estimate was Rs. 31,875, but Rs. 46,038 was actually collected, showing an improvement of Rs. 14,163 over the estimate, and of Rs. 10,373 over the collections of the previous year.

The number of cattle and sheep grazed gives an average of Annas 2·4 per head, varying from 1 anna in South Arcot to 4 annas in South Coimbatore, according to the proportion of sheep included, and the period of the year for which the fees were collected.

The following abstract shows the progress :—

ABSTRACT J.—Grazing and grass collections.

Items	DURING 1886-87			DURING 1887-88.		
	Number	Amount.	Average.	Number	Amount.	Average..
		RS	RS A P.		RS	RS. A P.
By grazing fees, per head	..	35,665	..	285,233	42,650	0 2 4
Do. contracts, per square mile.	..	..	..	..	3,388	..
By grass sales, per ton						
Total ..	..	35,665	..	285,233	46,038	..

All the districts that have started grazing on fees, have gradually improved their collections for this year.

By far the largest collection was made in the upland taluk reserves of North Coimbatore, which amounted to two-thirds of the whole Circle. South Coimbatore, Trichinopoly and South Arcot, have made a fair start, and Madura, Chingleput, Tinnevelly and Tanjore are following suit. No fees were collected in North Arcot, Salem, North Malabar, South Malabar and South Canara.

In the first two of the latter, collections will begin this year; in the other three, it is very doubtful if applications will be made at present, owing to the large areas of private forest, and to the comparatively few resident cattle.

The following district notes are added :—

In Chingleput,—In spite of large areas of Unreserved lands, the people generally preferred to pay the small fees prescribed, and grazed their cattle in the reserves on account of better pasturage. The District Forest-officer reports, that this is now spoken of as a *privilege*, by resident and neighbouring cultivators. Goats were strictly excluded.

In North Arcot,—The Reserved lands were thrown open to free grazing as a temporary measure, and no grazing was allowed in Reserved Forests.

In South Arcot,—Grazing of local herds was allowed on payment in Reserved lands.

In Trichinopoly,—The right to cut grass in most of the Government plantations was leased out for Rs. 340. The right to graze a limited number of cattle in certain Reserved lands was sold for Rs. 598. In other cases, grazing was allowed on payment under the seigniorage system. It is to be noted that the ryots in this district offered no objection to payment of grazing fees.

In Tanjore,—Free grazing was allowed in a small portion of Point Calimere forest, to two adjoining villages. Elsewhere fees were levied.

In North Coimbatore,—A census of the cattle in the Reserved lands of Satyamangalam, Kollegál and Bhaváni taluks, was taken on 30th April 1887, and half the sanctioned seigniorage rates was charged on local herds, and full rates on foreign cattle. The hill villagers were allowed free grazing for two head of cattle to each acre under cultivation, and the low-land villagers adjoining the reserves, two head of cattle for every 4 acres under cultivation. The concession granted amounted in money value to Rs. 7,468.

In South Coimbatore,—Grazing on payment was allowed over the whole area, excepting fire-protected portions.

In Madura,—About 8 square miles of Reserved Forests and 50 square miles of Reserved lands in No. II or Kodaikánal range, were thrown open for grazing on payment, which amounted to Rs. 1,223. Rs. 301 was likewise collected in No. V or Madura and Tirumangalam range.

In Tinnevelly,—The people of the Sankaranainárkoil and Tenkási taluks availed themselves of the privilege of grazing on payment in about 9 square miles of Reserved forests.

In the greater portion of Reserved lands, free grazing was permitted; grazing in about 2 square miles of Reserved lands was leased out for Rs. 225.

In North Malabar,—Arrangements were made to allow grazing on payment in Reserved Forests, but the privilege was not availed of.

In Salem,—Arrangements were made towards the end of the year to gradually introduce grazing fees, and a few reserves were selected for the purpose.

18. It is gratifying to note, that the complaints against grazing restrictions have been very few this year, and it is believed that if we introduce rules gradually, and relax such rules in favor of adjoining villagers, the people will begin to regard our grazing measures with some satisfaction.

The views of the Board and Government on this very important subject are expressed in their Orders on the last Annual Report, and generally our present policy may be briefly described as follows :—

To exclude all goats from reserves ;
To allow free cutting and removal of grass ;
To gradually restrict unlimited grazing of cattle and sheep in reserves ;
To gradually impose fees on the numbers admitted.

In imposing fees, and limiting the number of cattle in a reserve, it has been found best to select only *Reserved Forests* that have been clearly demarcated, and after calculating the number to be grazed, to issue free permits at the rate of two cattle and four sheep for each acre of holding enclosed in the reserve, and then apportion the remainder to adjoining villagers, in the proportion that their patta lands bear to the whole lands of adjoining villagers who apply before a certain date. After expiry of the time fixed, then grazing, up to the limit of cattle allowed, may be given to any outside bidder. We have now 7,555 square miles of reserves, and if we allow on an average 3 acres per head, or, say 210 head per square mile, we provide grazing for nearly 16 lakhs of cattle, which at 4 annas a head would bring in an annual revenue of close on 4 lakhs of rupees.

In Salem, it was found best to provide for the possibility of areas being closed to grazing from time to time, up to a limit of half of each reserve, and consequently to work on the larger allowance of 5 acres of the whole area per head. At this calculation, the figures would be nearly 10 lakhs of cattle, and $2\frac{1}{2}$ lakhs of rupees. We are not, however, limited to rates as far as Reserved Forests are concerned, and in course of time, it is believed we may be offered in some areas at least as much as 8 annas per head, nor can it be considered that this will be high for cattle kept for agricultural purposes, or for breeders of cattle, who, up to this, have contributed nothing towards State revenues.

In Tinnevelly an area was leased out at the rate of Rs. 112 a square mile, which is already more than double the 4 annas per 3-acre rate, and treble the 4 annas per 5-acre rate.

It may be seen then, what a fruitful source of revenue can be secured by a steady but cautious developement of the grazing system. In case these figures are thought over-sanguine, on the ground that many of our areas may not be indented on at all for grazing, it must be remembered on the other hand, that the calculations have not included sheep, which are generally admitted at half the rates, and double the number of the cattle. At the same time, comparing the present extent of reserves (7,555 square miles) with the whole area of uncultivated lands (totals of columns 4, 5, 6 and 7 in abstract *C*), it will be seen, that over 30,000 square miles, or more than four times the extent of our present reserves, is available for free and unrestricted grazing.

(*c*) *Natural Reproduction.*

19. It is apparent to all observers, and must be obvious to others, that the protection of a forest from fires and unrestricted grazing, secures an improvement in the growth both young and old, but notably in the former. It may indeed become a question whether the undergrowth will not become so thick and common, as to give us some trouble in making room for the particular species that we desire to encourage, but we have not protected long enough yet to feel this difficulty.

All Forest officers report, that the general appearance of our reserves is improving, and that where compartments have been coppiced, the growth from the stools and seedlings is encouraging. It is very good in areas with over 50 inches of well-distributed rainfall, and luxuriant in areas with over 100 inches.

The following remarks by Colonel Walker on his inspections in Madura, apply generally to all the reserves in the dry districts of the Presidency :—

"I found the protection of the Alagar hill reserved forest very good, and growth steadily improving, both there and in other localities which have been even partially protected against fire, promiscuous felling, and damage by cattle and their herdsmen, during the past three or four years.

"It takes a long time to reclothe denuded slopes, but nothing struck me more, after a long and intimate knowledge of the district, than the good results apparent from conservancy and protection, which the villagers themselves admit.

"It cannot be too clearly borne in mind, that we just stepped in in time to prevent utter ruin, for not only had all trees and shrubs been cut, but the very roots grubbed up, and the hill slopes were fast approaching the last stage, in which remedial measures are all but impracticable, except at very great cost, the soil having been washed away, and all seed-bearing trees and shrubs exterminated, nothing being left beyond bare and arid slopes, seamed with mountain torrents and ravines which carried off the rain immediately it fell."

In Chingleput,—Reproduction in the protected areas of Kambakam was improving and satisfactory. The seedlings were doing well, and the growth from coppiced stools was encouraging.

In North Arcot,—Natural reproduction, in the reserved forests (excluding portions in which fires occurred in the preceding year), was very good, seedlings and saplings of three to six years growth being plentiful, particularly in the Napier, Mamandúr and Chamala reserves. In comparison, the absence of seedlings in areas not protected from fire and cattle, was reported to be very marked.

In South Arcot,—Good results were noticeable in protected areas. The growth from coppice in the casuarina plantations near Cuddalore continued to be good.

In Salem,—A record of coppice growth was maintained for the coupe felled between November and January of 1886-87 in the Morur block, and showed fairly good results. The girth of the stools varied from $1\frac{1}{2}$ to $4\frac{1}{2}$ feet, the number of shoots from 4 to 29, and the height of the shoots in 16 months, from 3 to 5 feet according to the species.

In Trichinopoly,—The reproduction from stool of the Palai (*Wrightia tinctoria*) in a coupe of 48 acres felled in 1885-86, had risen, in $2\frac{1}{2}$ years, from 15 to 20 feet; but the Albizzia, which is the prevailing species, did not coppice so well, especially on the hill slopes, a good many stools having failed to reproduce at all, which was put down to the old age at which the trees were felled.

In Tanjore,—Reproduction continued to be good.

In North Coimbatore,—Signs of improvement were observed in the Ellapalliem and Arachalur fuel and fodder reserves of the Erode range, and in the fire-protected areas of the Satyamangalam and Kollegál ranges.

In South Coimbatore,—Coppice shoots and seedlings were noticeable everywhere in No. VIII, Sholakarai range, from which fire and cattle had been excluded; the regrowth in coupes felled in the two preceding years was most satisfactory.

On the Anaimalais, natural reproduction from seed was not satisfactory; the ground was unfit to receive the seeds, and when they did germinate, the heavy tall grass prevented the seedlings from growing up.

In Madura,—The natural reproduction, either from coppice or seed, in the "coupe" felled in the Kadavur compartment of the Alagar hill reserved forest in 1885-86 was not very encouraging. Colonel Walker considered this due to the felling not having been carefully conducted, and to subsequent protection having been bad. The soil, however, was reported to be poor, and the rainfall scanty.

Coppice shoots of Adugai (*Alangium lamarckii*) averaged from 6 to 8 feet in height, and looked very robust and healthy, but the ground was found to be poorly covered and infested with climbers and creepers, thorny shrubs, &c., *Acacia latronum* being very troublesome.

In Tinnevelly,—The natural reproduction of the Odai (*Acacia planifrons*) was good in the Kongarayakurchi block. The block is partly covered with indigenous growth (chiefly *Acacia planifrons* and *Melia Indica*), and partly planted with Mahogany. The Nim (*Melia Indica*) showed good growth, and the Mahoganies looked healthy, but required congeners.

In the Tenkási forests, the reproduction of the teak both from coppice and seed, in nearly all the coupes felled on the coppice under standard system, during the year under report, and the preceding year, was found to be highly satisfactory. The coppice growth, 9 months old, averaged 5 to 6 feet in height, and $2\frac{1}{2}$ to 3 inches in girth, whilst the ground was full of seedlings.

The District Forest-officer reports that the extensive grass areas in the Pápanásam hills, which he considered to be the remains of a burnt-out forest, were all showing

some signs of recovery, for root suckers were putting in an appearance, owing to fire having been kept out for the previous 4 years.

In North Malabar, the District Forest-officer reports that in Begur forest, Honne (*Pterocarpus marsupium*) and blackwood had, as usual, seeded well, and that the seedlings of the former had been very evenly distributed over the forest, and were growing fairly well. The reproduction from teak seed was not satisfactory, and the number of seedlings were very small. This is attributed to the dense undergrowth of *Helicteres*, *Lea* and *Zingiberaceous* plants, which shut out both light and air. Reproduction in the other deciduous reserved forests is also reported to have been backward, whereas in the shola forests of Periya, it was excellent. The reproduction of Irul and other valuable timbers in the Kanot forest was very promising.

In South Malabar, the growth from seeds and stools in the Karimpoya and Nellikutta reserved forests, continued to be good. The coppice growth in the previous year's fellings of the Wálayar reserve was also satisfactory.

In South Canara, the Dhup (*Vateria malabarica*) is specially noticed for the profusion of young seedlings. The *Hopea parviflora* also reproduced well from self-sown seeds.

(*f*) *Artificial Reproduction, Regular Plantations, Cultural Operations, and Topes* (*see Appendices* 60 *and* 61).

20. There is some difficulty in arranging figures, and drawing conclusions under this head. The *areas* on which expenditure has been incurred in *cultural operations*, may vary every year, and no attempt, the Acting Conservator thinks, should be made to show these *areas* in the plantation returns. The expenditure on artificial reproduction naturally falls under—

1. Forest reserves ... ... Plantations (including topes), and other areas.
2. Unreserved land ... ... Do. do.

And in course of time, as our accounts improve, it is hoped that the expenditure and revenue may be kept under separate heads for each reserve or working circle, so that the profit or otherwise of working each may be shown.

There should, as a rule, be no expenditure on unreserved lands that are not either plantations or topes, and it is considered advisable that, gradually hereafter, all topes and plantations which are worth retaining should be classed as reserves, and the remainder struck out of our lists and transferred to unreserved land. At the same time, all topes in which regular planting operations are undertaken, should be dealt with as plantations, and the remainder as simple reserves. However, the figures are now taken as shown in the accounts at present, and the following abstract exhibits progress up to date.

ABSTRACT K.—Plantations, Topes and Cultural operations in other areas, from commencement (see Appendices 60 and 61).

	Up to 1886-87.		Added during 1886-87.		Added during 1887-88.		Total.	
	Area.	Cost.	Area.	Cost.	Area.	Cost.	Area.	Cost.
	ACS.	RS.	ACS.	RS.	ACS.	RS.	ACS.	RS
Plantations	12,234	5,83,366	— 448	+ 1,682	+ 132	+ 24,609	11,919	6,09,828
(Add expenditure prior to 1885-86 excluded in the plantation returns of that year, but adjusted by the Examiner during the current year.)	..	..	..	..	..	171		
Topes	18,252	2,58,187	+ 657	+ 33,399	— 26	+ 3,381	18,883	2,94,967
Other areas	2,536 and 100 miles of channel banks.	28,460	+ 436	+ 4,201	+ 389	+ 1,978	3,361 and 100 miles of channel banks.	34,639
Total ..	33,022 and 100 miles of channel banks	8,70,013	+ 645	+ 39,282	+ 495	+ 30,139	34,163 and 100 miles of channel banks.	9,39.434

21. The Revised budget allotment under VIII (*d*) Plantation, was Rs. 36,763. The short expenditure occurred principally in Salem, Tanjore, Madura, and South Malabar.

The decrease in Malabar was owing to extension of teak planting having been confined to 85 acres instead of 100 acres as provided for, and in Salem, to several tope watchers having been dispensed with.

In Chingleput, 17,500 casuarina seedlings were transplanted during the year in Meyur and Wálajáh topes. There were heavy casualties, and only 4,000 were doing well at the close of the year.

Acres 9·58 were added to Homes' garden tope in Saidápet for experimental cultivation of Persian date palms, as per Board's Proceedings, 7th October 1887, Mis. No. 2523. The produce of all topes in this district was leased out for Rs. 150.

Various kinds of seeds were sown in 550 pits in the Kambakam hills, and 40 mahogany and 24 bamboo seedlings were set out along the streams.

In North Arcot, failures in old casuarina plantations were replaced, and 69 acres replanted.

In South Arcot, 46 acres were newly planted with casuarina. 2,132 measures of seeds of various kinds were collected and sown in 15 different blocks.

In Salem, the topes were leased out for 3 years, and the establishments considerably reduced. Eight topes were temporarily transferred under certain conditions to Land Revenue officers, and Local and Municipal bodies. One tope was handed over to the Railway Company, and one tope was added to the list.

In Trichinopoly, 12 acres were replanted with casuarina, *Cassia fistula*, and *Albizzia Lebbeck*, and 55·2 acres were added to the plantation areas. 6·45 acres in the area of topes omitted in previous years have now been included.

In Tanjore, 26 acres, being the area of Kadambadi plantation abandoned as per G.O., 11th May 1885, No. 541, were excluded from the plantation area.

Twenty acres of cashew-nut and casuarina seedlings were planted.

In North Coimbatore, two miles of scrub jungle were cleared for a channel to irrigate the Bailur sandalwood plantation, one mile of the proposed channel was dug, and a small stone anicut was built. 18 acres of the plantation and 4½ miles of inspection paths were weeded. Temporary sheds were repaired, and a few new huts erected for the coolies, &c.

In South Coimbatore, two topes were handed over to the Land Revenue Department.

In Madura, the Velamkombai teak plantation was reported to be looking very well but required thinning.

The growth, however, was very slow.

It was definitely arranged to abandon Parappar on the Palni Hills as a planting site, and to take up a new one (188 acres) at Gundan shola, about two miles from the Kodaikánal Settlement. 5 acres of this new site were planted, and were doing well. The Acacia plantation was not favorably reported on. All other plantations in the district were doing well, but the growth of teak in Vannatiparai was as slow as in Velamkombai.

In Tinnevelly, 102,000 palmyra nuts were sown in 150 acres of the Kudirimalaiteri, where 30 acres were also sown with Odai (*Acacia planifrons*), by penning some goats, and 70 acres by dibbling in the dung of goats and sheep after they had had fed on the pods. 75 measures of Odai seeds, mixed with manure, were also sown in 50 acres, and another 10 acres were sown with Virali (*Dodonæa viscosa*) and Karunavurvi.

In North Malabar, the teak plantations at Kanôt were weeded, demarcated and fire-protected. Weeds were removed, and crooked and badly grown plants were

coppiced or pruned. The planting was done between 1876 and 1879, and the Acting Conservator found on inspection, that it was generally badly done. The planting of 1878 was the best. About 5 per cent. of the saplings were 9 inches in diameter, 10 per cent. 6 inches, 50 per cent. 3 inches, and the rest under 3 inches in October last. In some places there was a substratum of rock or gravel, which interfered with the growth.

The expediency of maintaining the Manantoddy botanical gardens was questioned, and further inquiries ordered.

One hundred measures of teak seed were sown broadcast in Kanôt tuckles, but very few germinated. The 32 acres of cardamoms planted in Periya in 1886, and the 40 acres purchased from Mr. Fletcher were weeded, and failures supplied. The crop from both gardens was farmed for Rs. 710. The extension to the gardens consisted of 77 acres.

In South Malabar, 96,400 teak and 1,207 mahogany plants were set out in 85 acres, but owing to want of rain in July and August, there were many casualties, most of which were, however, replaced in the following months, as also were 4,330 casualties in teak, and 881 in mahogany, of the preceding year. 1,946 mahogany plants were also put out in the 1886-87 planting, as well as Burma bamboos along the river banks.

12 lbs. of mahogany seeds from the Botanical Garden, Calcutta, in August 1887, were sown in nursery beds. They germinated fairly, and some 4,000 seedlings are now available for next year's transplanting.

The Acting Conservator inspected the Nilambúr teak plantations in November and December 1887, and was favorably impressed.

His observations were reported.

In South Canara, 11 acres of casuarina were newly planted during the year. 46·39 acres were found on survey to be deficient in the old areas, and were excluded from the plantation area.

The growth of casuarina in the Ullal plantation was fair for the old planting, and good for the new. Of the latter, the best was the planting 4 years old, the trees in which averaged from 20 to 25 feet in height when the Acting Conservator visited the district in November 1887. The Honne (*Calophyllum inophyllum*) was not considered of much value, except as an ornamental tree. Its growth is slow for fuel, and its size is not sufficient for timber.

(*g*) *Works of Improvement.*

22. This is a very general heading, and practically includes works under nearly all the other heads. Following, however, the procedure in previous years, notice is only taken here of the expenditure of Rs. 560 under VIII (*f*) for forming compartments, and for eradicating prickly-pear from reserves, the first of which, the Acting Conservator thinks, should have been charged to boundaries, and the last to cultural operations.

(*h*) *Experiments and Exotic Trees.*

23. The report on experiments with exotics, &c., is printed as an appendix, as ordered by Government in their review on last Annual Report.

(*i*) *Communications and Buildings.*

24. The Revised estimate was Rs. 44,125 and the expenditure Rs. 32,488. The short expenditure was chiefly in North Arcot, Salem, North Coimbatore, South Coimbatore, North Malabar and South Malabar, and generally speaking was due to the establishment being employed on selection, demarcation, and settlement of reserves, —all more important works at present, than roads and buildings. As it is, however, Rs. 6,499 more were spent, than during the year before. The following abstract *should* give the cost *up to date*, but the previous figures have not been collected, nor

has the depreciation for wear and tear, to be written off each year, been decided. It is hoped that by next year these figures may be given.

ABSTRACT L.—Communications and buildings from commencement.

Description of work.	Cost up to the year, less percentage for depreciation.	Cost during the year.	Total from commencement
		RS.	
Previous roads	Previous figures not collected.	...	
Do. buildings		...	
Do. other works		...	
Road repairs	...	4,610	
New roads	...	9,414	Totals await previous figures.
Building repairs	...	5,593	
New building	...	11,714	
Other work repairs	...	778	
New other works	...	379	
	Total ...	32,488	

The new roads and buildings during the year consisted of—

In Chingleput,—A tiled rest-house and a tannah-house, at Varadapalliem and Gundur, respectively.

In North Arcot,—Collection of materials for a bridge at Amerdi.

In South Arcot,—The conversion of two miles of Tenmalai ghât trace into a bridal path 5 feet wide, and the extension of Tenmalai forest rest-house.

In Salem,—The construction of a fair-weather road (6 miles), from Kânakurchi village to Kuputur reserve, and the construction of three tannah-sheds.

In Trichinopoly,—A fuel feeder (4 miles), from the railway-line near Kalpatti to Punjantangi.

In North Coimbatore,—The tracing of 12 miles of roads, and the construction of five rest-houses and twelve tannah-huts.

In South Coimbatore,—The erection of 17 small bridges, and the addition of outhouses to the Ranger's quarters at Setumadai.

In Madura,—The construction of roads near Machur, and from Kadavur to Chatrapatti, and the completion of the Gundan shola to Púmbarai road; the construction of two rest-houses at Uttamapalliem and Devadanapatti; one tannah-hut at Peermaad; one pony-shed at Kodaikánal, and the completion of store-room at Kodaikánal.

In Tinnevelly,—The construction of $6\frac{1}{2}$ miles of Kariarkannaikotai odai cart-road, and the Parapavillai bridge. The construction of a Ranger's office at Ambásamudram; the roofing with tiles, &c., of the bungalow at Kannaikotai odai; the part construction of a building at Kalivilaipet, and of a Ranger's office at Vasudevanallur.

In North Malabar,—$3\frac{1}{2}$ miles of road from Madapalli to Gulur road; inspection paths in Peria, Kanot, &c., and three bridges on Pambrai road. The construction of one Mahout lines at Begúr; one Forester's serambi at Maki; one seed-house and one gardener's house in the experimental gardens; one District Forest office and a latrine at Manantoddy; one kitchen and one stable at Kuppadi, and one Forester's serambi at Kanot.

In South Malabar,—The opening out of an inspection path 3 feet wide and $1\frac{1}{2}$ miles long in Chenat Nair; the Dhoni road; a bridge at Wálayár, and $3\frac{1}{2}$ miles of compartment roads in teak plantations at Nilambúr; one cháppa and two huts for a Forester and guards in Wálayár, one chappa at Dhoni, and the District Forest-officer's bungalow at Nilambúr (in course of construction).

In South Canara,—Two inspection sheds at Ullal and Tannirbavi.

It was definitely arranged to have about 9 miles of tramway, *i.e.*, 7 miles in South Coimbatore, and 2 miles in North Arcot, the former for transport of timber from Tekkadi leased forests, and the latter for transport of firewood from Tiruvallam casuarina plantation. Estimates were accordingly prepared, and indents forwarded to the India Office during the year. The tramway materials have recently arrived, and the lines are being laid.

CHAPTER V.

YIELD AND WORKING.

25. The total yield for the year in tons, as compared with the former year, is shown in the following abstract :—

ABSTRACT M.—Comparative yield in tons.

Heads.	TIMBER.		FIREWOOD AND CHARCOAL.		BAMBOOS.	
	1886-87.	1887-88.	1886-87.	1887-88.	1886-87.	1887-88.
1	2	3	4	5	6	7
Departmental agency	5,997	(*a*) 3,432	12,156	(*b*) 9,422	200	238
Removals by purchasers	21,077	27,375	182,263	149,733	29,500	27,206
Confiscated wood	240	336	188	243	7	28
Free grants, as far as known	143	1,259	10	113	18	569
Total ..	27,457	32,402	194,617	159,511	29,725	28,041
Difference in 1887-88 as compared with 1886-87	+ 4,945		— 35,106		— 1,684	

Heads.	SANDALWOOD.		MINOR PRODUCE.		TOTAL.	
	1886-87.	1887-88.	1886-87.	1887-88.	1886-87.	1887-88.
	8	9	10	11	12	13
Departmental agency	11	27	382	422	18,746	13,541
Removals by purchasers	..	..	10,160	25,880	243,000	230,194
Confiscated wood	..	..	60	65	495	672
Free grants, as far as known	..	..	4	110	175	2,051
Total ..	11	27	10,606	26,477	262,416	246,458
Difference in 1887-88 as compared with 1886-87	+ 16		+ 15,871		— 15,958	

(*a*) Includes 12 tons being excess found on remeasurement of timber collected and taken to depôt in previous year.
(*b*) Do. 1 ,, do. do. of firewood do.

There was a decrease in the total yield, of about 6 per cent. on the previous year, which will be explained under the heads to follow.

Section 1—*Departmental Operations* (*Appendices* 68, 69, 70, 71 *and* 73-A).

26. The following comparison of trees felled departmentally is given :—

ABSTRACT N.—Trees felled and converted (see Appendix 68).

Balance brought forward.	Felled, 1886-87.	Felled, 1887-88.	Converted, 1886-87.	Converted, 1887-88.	Balance carried forward.
503	8,157	4,417	8,180	4,809	88

The trees felled, and trees converted, amounted to about one half of those in the previous year. This was due to the necessity of decreasing the felling in North Malabar (Wynaad), where there were fewer fresh demands for timber at the usual prices, and where we had a large stock on hand. The outturn of trees converted, is carried into the next account, but all timber shown as collected in that account, has not necessarily passed through this return, which refers particularly to *selected trees* only.

27. The following abstract contrasts the produce, collected and disposed of by the department, with that of the previous year:—

ABSTRACT O.—Produce collected and disposed of (see Appendices 69, 70, 71 and 73-A).

Produce collected.	BALANCE BROUGHT FORWARD.			DURING 1886-87.			DURING 1887-88.		
	Tons.	Value.	Average.	Tons.	Cost.	Average.	Tons.	Cost.	Average.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Timber	3,450	..	..	5,997	53,976	9 0 0	3,432	45,243	13 3 0
Firewood and charcoal	1,240	..	..	12,156	12,701	1 0 0	9,422	16,759	1 12 0
Bamboos	463	..	..	200	412	2 0 0	238	216	0 14 0
Sandalwood	15	..	..	11	613	56 0 0	27	1,193	44 2 0
Minor produce ..	2	..	..	384	23,483	61 0 0	422	28,296	67 4 0
Total ..	5,170	..	..	18,746	91,185	5 0 0	13,541	91,707	6 12 0

Produce disposed of.	DURING 1886-87.			DURING 1887-88.			BALANCE CARRIED FORWARD.		
	Tons.	Sales.	Average.	Tons.	Sales.	Average.	Tons.	Value.	Average.
		Rs	Rs. A. P.		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Timber	3,650	61,190	16 12 0	4,128	1,08,660	26 5 0	5,101	..	..
Firewood and charcoal	12,103	31,056	2 9 0	9,827	40,729	4 2 0	888	..	..
Bamboos	500	2,528	5 0 0	340	852	2 8 0	61	..	..
Sandalwood	14	5,057	361 3 0	3	690	230 0 0	36	..	..
Minor produce ..	381	32,449	85 3 0	353	36,439	103 0 0	72	..	..
Total ..	16,648	1,32,280	7 14 0	14,651	1,87,370	12 2 0	6,158	..	..

The actuals under this head were, Rs. 9,785 less expenditure, and Rs. 78,363 less revenue, than was provided for in the Revised budget. The decrease on both accounts was chiefly due to the demand on the West Coast not coming up to anticipations, which considerably interfered with the expected timber sales in South Canara, Malabar, and South Coimbatore.

The estimates of sales must have been somewhat too sanguine, for as it is, there were better sales than last year by Rs. 47,470 under timber, though this is partly due to defaulters of the previous year being made to pay up in the year under report. The rates for collecting timber, firewood and minor produce were higher, and for bamboos lower, than last year, due to the proportions carried to depôt during the two years being different. This may be seen from the result under sales, where timber, firewood, and minor produce realized a much higher, and bamboos a lower rate, due to more of the former being sold from depôt. Next year, it is hoped that the figures may be shown separately for "forests" and "depôts" under each item, so as to secure a fairer comparison of rates. The sandalwood sales and rates were lower than last year, as there was a general falling off in the prices offered.

The department supplied direct to public works and railways, 30 tons of timber, and 3,466 tons of firewood. The value of the opening and closing balances is not entered, as it would not agree with Appendix 73-A, which only shows for *depôt* stock, whereas this abstract includes the stock collected in forests as well. The value of stock balance in depôts (Appendix 73-A), was Rs. 53,780, as against Rs. 64,927 at the

commencement of the year, showing a reduction of stock balance to the amount of Rs. 11,147; which is satisfactory.

Section 2—Removals by Purchasers (Appendix 72-A).

28. The following abstract exhibits the removals by purchasers under permit or license, as compared with the previous year :—

ABSTRACT P.—Produce removed by permit-holders (Appendix 72-A).

Produce.	During 1886-87.			During 1887-88.		
	Tons.	Revenue.	Average.	Tons.	Revenue.	Average.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Timber	21,077	1,00,752	4 12 0	27,375	99,254	3 10 0
Firewood and charcoal	182,263	1,68,730	0 15 0	149,733	1,58,623	1 1 0
Bamboos	29,500	68,174	2 5 0	27,206	76,545	2 13 0
Grass and grazing	..	35,840	..	..	45,918	..
Minor produce	10,160	1,73,059	17 0 0	25,880	2,24,222	9 0 0
Total ..	243,000	5,46,555	2 4 0	230,194	6,04,562	2 10 0

The actual revenue realized during the year, is Rs. 45,000 in excess of the Revised estimate. About 6,000 tons more of timber were removed than last year, but the rates were less, due to a larger supply of the cheaper classes; and this also explains the decrease in the quantity of the firewood supplied, for wood that was formerly classed as firewood, was really III class wood (poles and picked wood), and is now shown under that class as timber. The rates for firewood have improved.

Though the rates for bamboos have also improved, there is a small decrease in the quantity supplied, which, it is considered, is due chiefly to the reduction-to-tons not being always calculated out in the same way.

The increase under grazing has been explained in a previous chapter. Minor produce includes a very large variety, with different methods of collections, and it is nearly impossible at present, to give a fairly correct estimate in tons, and averages. The information will improve each year, but at present, all that can be remarked is, that there was a large increase of Rs. 51,163 under this item, and that it is expected a steady improvement will be maintained. The quantities supplied under this head, through contractors and to railways, were 16,000 tons of firewood.

29. *Confiscated produce—(see Appendix 72-B).*—The confiscations during the year, as compared with the year before, were as follows :—

ABSTRACT Q.—Confiscations (see Appendix 72-B).

Produce.	During 1886-87.			During 1887-88.		
	Tons.	Realized.	Average.	Tons.	Realized.	Average.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Timber	240	..	..	336	..	..
Firewood and charcoal	188	..	..	243	..	..
Bamboos	7	..	..	28	..	..
Sandalwood	..	..	..	..	..	..
Minor produce	60	..	..	65	..	..
Total ..	495	2,897	5 14 0	672	3,054	4 9 0

Section 3—Free grants of Forest Produce.

30. The following exhibits the free grants, by special permit or license, and their value, as compared with last year :—

Abstract R.—Free grants.

District.	Timber.			Firewood.		
	Tons.	Value.	Average.	Tons.	Value.	Average.
1	2	3	4	5	6	7
		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Chingleput	3	11	..	..	..	..
North Arcot	140	608	..	103	109	..
South Arcot	95	314	..	10	11	..
Salem	72	261	..	..	..	..
Trichinopoly	6	29	..	..	..	..
South Coimbatore	..	..	..	..	..	..
Madura	29	105	..	..	..	..
Tinnevelly	3	11	..	..	..	..
South Canara	911	3,303	..	..	..	..
Total ..	1,259	4,563	3 10 0	113	120	1 1 0
Free grants last year	143	679	4 12 0	10	9	0 15 0
Difference ..	+ 1,116	+ 3,884	..	+ 103	+ 111	..

	Bamboos.			Minor produce.			Total.		
	Tons.	Value.	Average.	Tons.	Value.	Average.	Tons.	Value.	Average
	8	9	10	11	12	13	14	15	16
		Rs.	Rs. A. P.		Rs.	Rs. A. P.		Rs	Rs. A. P.
Chingleput	..	..	..	5	45	..	..	..	..
North Arcot	51	143	..	..	..	..	..	..	..
South Arcot	..	..	..	..	..	..	..	..	..
Salem	518	1,457	..	..	..	..	..	..	..
Trichinopoly	..	..	..	..	..	..	..	..	..
South Coimbatore ..	..	..	..	100	900	..	..	..	..
Madura	..	..	..	5	45	..	..	..	..
Tinnevelly	..	..	..	..	..	..	..	..	..
South Canara	..	..	..	..	..	..	..	..	..
Total ..	569	1,600	2 13 0	110	990	9 0 0	2,051	7,272	3 8 0
Free grants last year ..	18	42	2 5 0	4	68	17 0 0	175	798	4 8 0
Difference ..	+ 551	+ 1,558	..	+ 106	+ 922	..	+ 1,876	+ 6,474	..

There is an increase in the quantity granted under all heads this year, but this does not mean that the people actually enjoyed more free produce than previously, but that where they formerly got a *general* permission, they have now to get a specific permit so far as forest reserves are concerned, and this return represents such permits, as well as some special grants from unreserved land.

As a general rule, grazing, leaves for manure (from unreserved trees), and head-loads of thorns and dry wood, are allowed free for domestic use only, from unreserved lands; while the cutting of grass, and the use of leaves for manure (not of the reserved kinds, and not in the areas specially protected), is allowed free from reserved lands.

CHAPTER VI.

Financial Results.

31. The revenue and expenditure of the Circle, as per Appendix No. 64, compare with the actuals of four previous years, and with the Revised estimate of the year under report, as follows :—

ABSTRACT S.—Cash results, from 1883-84.

Items.	For 1883-84.	For 1884-85.	For 1885-86.	For 1886-87.	For 1887-88..	Revised estimate for 1887-88.	The year under report, compared with the previous year.	The year under report, compared with the Revised estimate.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Revenue	5,45,963	6,25,492	6,52,318	6,94,535	8,10,197	8,36,800	+ 1,15,662	— 26,603
Expenditure—								
A. Conservancy and Works.	1,88,612	2,09,344	2,34,006	3,80,192	3,35,437	3,51,300	— 44,755	— 15,863
B. Establishment ..	2,59,396	2,87,579	3,00,608	3,40,529	3,28,981	3,38,500	— 11,548	— 9,519
Total Expenditure ..	4,48,008	4,96,923	5,34,614	7,20,721	6,64,418	6,89,800	— 56,303	— 25,382
Net results ..	+97,955	+1,28,569	+1,17,704	— 26,186	+1,45,779	+1,47,000	..	..

The revenue has risen considerably since 1883-84, and the surplus is higher than any year from that time. This is only a return of cash results. Last year, the surplus in favor of working would have been about Rs. 50,000, but for the large expenditure of Rs. 75,000 on capital account in connection with the Tekadi forest lease. This year the surplus would have been about Rs. 1,88,000, but for a similar expenditure of Rs. 42,000 in the purchase of the Amarapolliam forest estate. As it is, the surplus shown was Rs. 1,71,965 better than the year previous.

The total revenue and expenditure, compared with the Revised estimate, are both a little more than 3 per cent. less, so that the net surplus remains nearly as anticipated.

The increase or decrease under revenue, and under conservancy and works, compared with the Revised estimate, have been explained in the preceding chapters.

The expenditure under B. Establishment, was less than that of the preceding year, and also of the Revised estimate, owing to the transfer of a Senior Deputy Conservator (Mr. Peet) to act as Conservator, Northern Circle, and to the absence of two Deputy Conservators (Messrs. Gass and Morgan) on furlough, their place having been filled up temporarily by a Junior Assistant Conservator, and a Sub-Assistant Conservator.

Towards the cash surplus shown, the district of Salem contributed 38 per cent., North Coimbatore, North Arcot and South Arcot, 29, 27 and 23 per cent. respectively, Madura 10 per cent., Trichinopoly 5, Tinnevelly and South Coimbatore 4 each, and Tanjore 1 per cent.

There was a heavy deficit in South Malabar, viz., 34 per cent., for reasons already explained. The deficit in South Canara was 4 per cent. and in North Malabar 3 per cent.

The proportion of surplus to gross revenue was about 18 per cent.

32. As stated, the above summary of revenue and expenditure is only a cash account, and to arrive at a fair conclusion on the year's working results, it appears to the Acting Conservator, that we should add to the cash surplus of ... Rs. 1,45,779

The expenditure on live stock, stores, tools, plant and buildings (Form 73-*b*)	,,	18,855
Do. on Settlement establishment (B charges) ...	,,	22,503
Do. on Demarcation (VIII-*a*)	,,	11,613
Do. on acquisition of lands and rights (VIII-*b*) ...	,,	45,723
Do. on surveys (VIII-*c*)	,,	5,864
Do. on law charges (IX-*b*)	,,	2,853
Decrease in outstanding advances (Form No. 65)	,,	3,056
Total ...	,,	2,55,746
And deduct,		
Decrease in value of depôt stock (Form 73-*A*)	,,	11,147
Do. in outstanding revenue (Form 66)	,,	20,606
Total ...	,,	31,753

which leaves a balance of Rs. 2,23,993 in favor of the *ordinary* working account, for the year.

CHAPTER VII.

General Remarks.

33. *Forest School.*—Of the six officers of the subordinate staff, sent to the Forest School, Dehra Dun, in 1886-87, four returned at the close of 1887-88, but three of them only with Ranger's certificate, the fourth having failed in the final examination. Messrs. Marshall, Saldanha and Tapp of this Circle obtained all the six prizes awarded at the school in a class which consisted of about 30 to 40 students. Two students (Foresters Tapp and Surappier), remained at the school for a period of three months beyond the usual time. During the year under report, three fresh students (Foresters) were sent to the school.

We have now four school-trained and certificated Sub-Assistants, and eight Rangers.

34. *Conduct of the establishment.*—There is room for improvement among subordinates, and when individual responsibility is better fixed, the District Forest-officers will find it easier to bring negligent or dishonest hands to book. One Ranger and one Forester were reduced to the bottom of their respective grades, for neglect of duty, and submission of misleading reports. One Forester was reduced from 1st to 2nd grade, for frequent disobedience of orders. Four Foresters were under suspension at the close of the year, pending enquiry into charges against them; and there have been numerous warnings and minor punishments. Two cases of robbery of cash chests were reported (both in the Madura district)—one of a permit officer's and the other of a Forester's cash box.

Three cases of fraud on the part of Lower subordinates were detected, and the accused convicted, and two more were pending at the close of the year all in the Salem district.

In South Coimbatore, a series of defalcations were discovered, in which the Head Clerk of the District Forest office was concerned, and he was sentenced to three years' rigorous imprisonment and a fine of Rs. 500.

35. *Health of establishment.*—The superior staff has suffered. Mr. Stanbrough at the close of the year, was sent away on urgent medical furlough, and was soon followed by Mr. Somers Smith. Messrs. Wooldridge, Morgan, Hayne, Hadfield and Peake, have all suffered from fever and failing health.

The health of the subordinate establishment was also poor.

Fever was prevalent in all districts, except Chingleput, South Arcot and Tanjore. In North Arcot, Coimbatore, Malabar, South Canara and Salem, it was very bad, and many subordinates were incapacitated for work from one to six months, while death followed in the case of one Forester, and several guards and watchers.

36. *Service books.*—The District Forest-officers of Chingleput, South Arcot, Trichinopoly, South Coimbatore, Tinnevelly and South Canara, have given no information on this subject, though they were specially requested to do so. The District Forest-officers of North Arcot, Tanjore, North Coimbatore, and North and South Malabar, state that the service books of all their subordinates were posted up to date. In Salem, there has been a difficulty in writing up the service books, owing to the records having been destroyed by a flood some years ago. In Madura, the preparation of the service books was still being attended to. The Acting Conservator finds that in very few districts is a service index register, and a register for service orders, maintained. The Code lays down no orders on these very essential records; the omission will now be set right.

37. *Rules under the Forest Act.*—An addition has been made, authorizing Forest-officers unable to attend the forest settlement inquiry, to put in written statements, and depute a subordinate officer, not below the rank of a Forest Ranger, to explain such statements, if necessary, before the Forest Settlement-officer.

An exception was made under section 26, rule 10, in favor of drawing toddy from palms in unreserved lands, or reserved lands not specially protected. The revision of Timber Transit Rules was still under consideration, and a difficulty is felt in framing them, owing to the scattered nature of the areas to which they are to apply. District Forest-officers have not all noticed the working of the game license rules,

and in some districts the rules have not been yet introduced. Where they have, they have been fairly observed, except in very remote localities where our protective establishment is weak.

38. Some changes are necessary in our form and system of forest permits, and it is probable we shall have to abolish the issue of way permits by tannadars. There have been constant complaints. The forms are too numerous. The checking of them is very laborious. Rubber, or other stamps are necessary, to prevent the frequent alteration in the dates of issue, or limit of time, that are reported ; and the exchange of original permits for Way permits, by low-paid and illiterate tannadars, is constantly abused. The Acting Conservator thinks it may be found best, to have only one form of permit, consisting of merely counterfoil and original (instead of in triplicate as at present)—the former to be submitted by the issuing officer with his accounts, and the latter to cover the produce *en route*, and be recovered only at the last tanna, within the district, before destination, thus dispensing with the issue of Way permits, except in special cases, and by certain Upper subordinates alone. There are numerous difficulties and requirements to be met, which make a simplification of the rules very troublesome.

39. *Private forests.*—In North Arcot, the forest in the Kangundi estate (under the management of the Court of Wards), continued to be in charge of the District Forest-officers. Protection was rendered difficult, owing to the innumerable claims to rights of all kinds advanced by the people. In Madura, the Collector observes, that the denudation of forest in some of the zemindaris had become so serious, that he considered it absolutely necessary that Government should exercise control to prevent such ruthless destruction, and had instructed the District Forest-officer to prepare a report on the subject.

The preservation of forests in the Gandamanáyakanúr zemindari, is reported to be a matter of the first importance. These forests have ceased to be under the control of this department, since January last, when the Gandamanáyakanúr estate was handed over by the Court of Wards to the zemindar, who had then attained his majority. The forests of the Sáptúr estate continued to be under the control of this department, on behalf of the Court of Wards. These forests are also of much importance.

In Trichinopoly, a trained Forest Ranger was deputed to inspect and report on the forests of the Marungapuri zemin, recently brought under the control of the Court of Wards.

40. *Wild elephants.*—In South Canara, Malabar (Wynaad), and North Coimbatore, the elephants are reported to be largely increasing, and it may soon be advisable to take special steps, by pits or kheddah operations, for the capture of some of them.

In South Arcot, a solitary elephant was killed by the villagers, and it is believed was the sole remaining one on the Javadi hills.

41. *Babul wood (Acacia Arabica).*—Some interesting experiments were made by the Madras Railway Company, and the Chemical Examiner, which proved that this wood is unsuited for heating any vessels containing copper. The reasons are given in the following extract from the Chemical Examiner's letter:—

"It will be observed that the proportion of chlorine contained in this babul wood, greatly exceeds the proportion found by Dr. David Watson in some babul wood which he analysed for the Sind, Punjab and Delhi Railway Company.

"Experiments have also been made by exposing heated copper foil in a combustion furnace, to fumes mixed with air from acetic acid, sodium chloride, burning wood, and a mixture of sodic chloride and charcoal. The result of these experiments is, to show that sodium chloride acts rapidly, and most destructively upon the copper, and that pyroligenous (acetic) acid exerts a comparatively slight and superficial action.

"It must therefore be concluded that fumes from this wood would rapidly erode heated copper plates."

The corrosion of the copper varied according to the different tests, from ·0013 to 12 per cent. in 48 hours. Under the circumstances, the Railway Company naturally decline to purchase our wood for their engines.

APPENDIX A.

DETAILS OF EXPERIMENTS WITH EXOTICS DURING, AND UP TO, THE CLOSE OF THE OFFICIAL YEAR 1887-88.

Dates.— It was reported last year, that the attempt to raise date palms from seeds specially imported from Busrah in 1886, proved generally unsuccessful, owing, it was believed, to the seed being old and insect eaten. Out of 170 plants raised from the seed in Nilambúr (South Malabar), 168 were alive in the nursery (having attained a height of 1 foot 3 inches in nineteen months), and two were transplanted, and are doing well.

In Trichinopoly, of the 8 plants raised in 1886-87, 2 have died, and of those that survive, 3 look healthy. In Tinnevelly 14, out of the 19 plants raised, survive, and are healthy. Mr. Hadfield's experiments at Nilambúr with bazaar-imported date fruits have been successful. Out of the 25 seeds put down in Panangad Teak Plantation, where the soil is chiefly alluvial, 19 germinated after one month, and attained a height of 9 inches in about nine months.

Looking at the success which attended Mr. Hadfield's experiments with bazaar date fruits obtained on the West Coast, it has been resolved to continue the trial on a moderate scale in other districts; but the orders of Government on the subject, having been received late in the year, the results can only find a place in the report for 1888-89.

In this connection, Mr. Morgan, District Forest-officer, North Malabar, writes—

"As I have raised dates from seed planted so far back as 1878, and have scores of seedlings of different ages in the nurseries here, I do not think it now necessary to try the experiment ordered by the Conservator. Over 90 per cent. of the seeds of the better varieties of *ripe* dates sold at Calicut and Tellichery, germinate within twenty-eight days, provided the fruit is fresh, and the stones sound. Of course the seeds of those dates that have been boiled and dried, will not germinate.

I have planted out dates raised from seed in Kurnool, Trichinopoly and Coimbatore, and even on the hills, but do not know what befell the plants put out. Here (Manantoddy in Wynaad), the plants are extremely slow in growth, and it is evident that the climate is too moist for them. The largest palm I have seen has a clear stem about 10 feet high, and is growing in Seylur Timmagowda's garden near Begur. It is said to be twelve years old. Its sex is unknown. This plant was raised from bazaar seed.

There was a very fine young palm at Tippukadu on the Snowdon estate, some seven years old. This plant was uprooted by wild elephants in 1876. I will plant out some of the plants now in the nursery, in accordance with the Conservator's orders, and also put out some more seed."

The Acting Conservator has since ascertained from Mr. Morgan, when and where he planted out the date palms in the other districts mentioned, and inquiries are being made to find out how they are getting on.

The District Forest-officer, Chingleput, purchased one pound of fresh Arabian date fruits at the Madras Agri-Horticultural Garden Show, and sowed the seeds in pots. Almost all of them germinated (38 in number), and are thriving.

Date offsets.—The experiments with these offsets obtained from Busrah in 1886-87, show fair results which are shown in the following figures, and give a 10 per cent. average annual loss:—

District.	Number received put down in 1886-87.	Number of casualties during the year 1886-87.	Number which existed at the close of the year 1886-87.	Casualties during 1887-88.	Number existing at the close of 1887-88.	Condition of plants.
Chingleput	113	4	109	2	77	Look healthy; growing well.
North Arcot ..	100	5	95	2	93	
South Arcot	100	a few, say 5	95	..	95	* No report; all, except one, in good condition.
Trichinopoly ..	124	4	120	4	116	
Tinnevelly	74	..	74	† 43	‡ 31	† Eighteen in the nursery and twenty-five after transplanting.
						‡ Nineteen in the nursery and twelve transplanted.
Malabar (Wynaad) ..	6	..	6	1	§ 5	§ Two growing fairly well, two indifferently and one not mentioned.
Total ..	517	18	499	82	417	

It was stated in last year's report, that out of 446 Persian dates planted in the Vettangudi forest, Tanjore, in the year 1880, only 175 palms remained in 1887, the percentage of failure in this case amounting to 8 per annum. These 175 plants are now thriving fairly well. Of the 71 offsets transplanted in the same forest in 1886-87, eight died during the same year, and fifty-four in the following, thus leaving only nine alive at the close of 1887-88.

In "Meltottam" (Vedaranyam forest) of the same district, sixty-four plants remained at the commencement of the year. Six offsets were transplanted during the year, making a total of seventy plants. Of this number, ten died, and the remaining sixty are flourishing.

Divi Divi.—These plants in the Navinipatti garden in the Madura district, are doing well.

Edible Cactus.—Out of the twelve plants put out in 1886-87, nine survive at date, and have a healthy appearance. They do not, however, show much growth.

Ensilage.—In Chingleput the two silos formed in 1886-87 were opened during the year, and the results were so satisfactory, that a repetition of the experiment has been ordered. Two new silos have accordingly been constructed. The experiment in North Arcot and South Canara may also be regarded as a success. The results in Tinnevelly were satisfactory. In Salem, however; the experiment was not a success on the whole, and the Collector is undertaking fresh trials.

Eucalyptus.—Some of the Eucalypti trees at Palmanér, in North Arcot, seeded during the year. The *Eucalyptus rostrata* in Tinnevelly is doing well, showing a growth of about 20 feet at an elevation of 2,500 feet on the Pápanásam hills. In Wynaad, the five large trees, *Eucalyptus sahgna*, continued to make good growth. They are now over 50 feet high and look sturdy.

Fourcroya.—The Fourcroya plants in the Navinipatti garden, Madura district, are well reported on. The plants put out on one side of a fire-line in the Alagar hill reserved forest have grown exceedingly well.

Giant Bamboos, &c.—In South Arcot an experiment was started by planting bamboo stems with reference to Colonel Van Someron's Note on Bamboos, but was not sufficiently advanced during the year to judge the results.

In Wynaad, the large clump of *Dendrocalamus Brandisii* continued to make excellent growth, the year's shoots being over 40 feet in height and 4½ inches in diameter. There are 1,016 plants of this species averaging 1½ feet in height available for planting out in "tuckles" in 1888-89.

Dendrocalamus longispathus has also grown most vigorously, the largest clumps averaging 30 feet in height with culms of 2½ inches to 3 inches in diameter. The growth of *Cephalostachyum pergracile* has been much slower, and the shoots average only 25 feet high by 1½ inches in diameter.

Beesha travancorica has grown with great vigor. Nine hundred and fourteen plants were planted during the year on the river bank. They average 5 feet in height.

Eight plants of the handsome yellow Burmah bamboo have been put out, and average 12 feet in height. The growth is most vigorous.

The Burmah bamboos in Nilambúr (*Arundinaria Brandisii* and *Dendrocalamus longispathus*) continue to grow well. The largest clump (planted in 1879) now contains about 100 stems. The large yellow bamboo clump, and the four cuttings raised by Mr. Hadfield, are doing well.

Ipecacuanha.—There are two plants in the Kanot nursery (Wynaad), averaging 6 inches in height. In Nilambúr the 20 plants which remained at the close of 1886-87 continued to do well. The Government Botanist tested one of them, and found that the yield for its age, was excellent.

Agreeably to G.O., dated 30th May 1887, Mis. No. 3082, Revenue, Mr. Lawson, the Government Botanist, put out 500 plants during the year in the Aiyravillikana teak plantation in Nilambúr. These are now 6 to 9 inches high.

Kigilia Pinnata.—The District Forest-officer, North Arcot, received some seed from the Honorable Mr. Whiteside. The seedlings raised therefrom, are growing rapidly and well

Lancewood (*Onandra virgata*).—The twenty-five plants sent to Nilambúr in 1886-87 from the Agri-Horticultural Gardens, Madras, were planted out during the year at Panangad. Of those sent to Wynaad, only nine plants are alive and these have not done well. It is feared that the plant cannot stand the cold.

Mahogany.—In Chingleput, 210 seedlings remained at the commencement of the year. Of this number sixty were transferred to Kambakam hills, and in all sixty-six died. The remaining eighty-four are growing well, and have attained a height of 2 to 3 feet. Of the fifty Mahogany seedlings planted last year in the Homes' Gardens, forty-two are doing well, and are from 4 to 6 feet high.

There are about 100 Mahogany plants in the plantations in North Arcot. They do not grow fast, but are straight and healthy looking. The plants in South Arcot also are healthy, and they are 128 in number.

Of the 500 plants transplanted in 1886-87 in Trichinopoly, 60 have perished and 440 are alive. These range from 1½ to 4 feet high. Out of the plants obtained from the Agri-Horticultural Gardens in 1886, 183 are in Manattattai and Kulitalai. They have suffered slightly from the late floods with a few failures. The rest, however, look healthy and are 8 feet high. Some of the tallest trees measure 11½ feet.

In Tanjore seventy-one Mahogany plants were planted in compartment No. I of the Vettangudi forest, but only twenty-four now survive, and are in good condition. The twenty-four seedlings put down last year in the nursery garden, and the sixty-nine put down in Vadithottam, show satisfactory growth. Twenty-eight seedlings were planted during the year to the south of the date garden. Two have since died, but the remaining plants are in a fairly good condition.

In Madura the condition of the mahogany plants in general, is favorably reported on, but the growth in some cases is slow. There are 1,065 plants in Tinnevelly, which have done fairly well on the whole. Some casualties have, however, taken place owing to plants being attacked by insects.

In Wynaad 198 plants were planted out near the teak plantation No 2 at Kanot, and average 3½ feet in height. Of the four old plants in the teak plantation No. 1, the average height is eighteen feet. Of the 43 plants put out in the experimental garden, only 37 are now alive and are 7 feet high. They were severely injured by the borer. There are 24 plants in the nursery.

The largest plant is 24 feet high, by 11 inches in girth, and looks very healthy. It escaped the borer, which none of the others have done.

In Nilambúr, South Malabar, the largest mahogany tree is that planted in September 1873. It will be interesting to compare the rate of growth of this tree during the past few years.

	Height in feet.	Girth at base, in inches.	At five feet, in inches.
10th year of age, or at commencement of 1883-84	65	42	30
11th do. do. of 1884-85	67	47	34½
12th do. do. of 1885-86	69	52	41
13th do. do. of 1886-87	70	56	44
14th do. do. of 1887-88	71	60	46

This tree was never apparently attacked by the borer.

The new planting amongst the teak, suffers so much from the attacks of the borer, that Mr. Hadfield thinks we shall have to give up planting the mahogany with the teak.

Manilla Hemp (*Musa textalis*).—In South Arcot, the six plants put out in 1888 in the Forest office compound, are doing well. The largest is now in fruit. There are eight offshoots available for transplanting. The 44 plants reported to be living in Tinnevelly at the end of 1886-87, are in a healthy condition, but they do not show much increase in growth; neither have they yet flowered. In Wynaad there is a magnificent clump of this fibre-yielding plantain in the Botanical garden at Manantoddy, growing most vigorously. The suckers will be removed and planted out this year.

Olea Europæa.—There are 28 plants averaging a foot in height in the nurseries in Wynaad, raised from seeds, sent by the Director of Revenue Settlement and Agriculture in 1886-87.

Peltophorum ferrugineum.—The twenty-four plants that remained alive in the Vettangudi forest, Tanjore district, at the commencement of the year, are in good condition. None of them flowered during the year.

Pithecolobium saman.—In North Arcot, the plants in the plantations are doing well. They do not grow very fast in pure sandy soil. If they do not answer as fuel, they at least improve the soil with the quantity of leaves they shed.

There are 123 plants in South Arcot, all of which are doing well. In Malabar (Wynaad) a tree in a swamp is over 40 feet in height, by 2¼ feet in girth. One hundred and forty-two other plants average only 10 feet in height, owing to the poverty of the soil in which they are growing.

Rubber Experiments.—In Wynaad the two surviving plants of *Hevea Brazeliensis*, made excellent growth in the experimental garden at Manantoddy, and are now over 12 feet high by three inches in diameter. Of *Ficus elastica*, 600 plants were permanently planted out in the same garden. They are healthy, but suffered from having been eaten down by stray cattle. There are 190 in the nursery. Five hundred and eighty-two plants were raised in the Kanot nurseries and planted out at Avanapoyil. These were put out in heavy shade, instead of in open "tuckles," and the result is, that the plants are very feeble. The shade will now be thinned gradually. There were thirty failures, and the existing 552 plants average 3 feet in height, by 1½ inches in girth. In Nilambúr the *Castilloa*, *Hevea Brazeliensis*, and *Ceara* are all doing very well. The one *Landolphia florida* is growing vigorously, and measures 24 feet in length.

The nurseries in the experimental garden at Manantoddy (Wynaad), are stocked with an assortment of plants. Mr. Morgan obtained seeds of *Eucalyptus* and *Conifer* from Mr. Lawson, which germinated fairly well. Some plants consisting of *logwood*, *fustic*, and *quinacum* plants,

with *ebony*, *conroopite*, and *calabash* seedlings, were also obtained from the Agri-Horticultural Society, Madras. A valuable *Sterculia*, yielding edible nuts, was received from Burma through the kindness of Dr. F. G. Shaw.

Sappan wood (*Cæsalpinia sappan*).—Two thousand seeds of this valuable dyewood were sown in "tuckles" in Wynaad. The seeds germinated without a failure, and the experiment has been a success so far. This dyewood is worth Re. 1 a tulam (32 lb.) and sells readily.

Silk.—The tasar silk has again attracted attention. Some cocoons were collected in Chingleput for the Agricultural department; and, with the view of ascertaining to what extent the worm exists, or can be increased, it has been resolved to appoint a special officer to make observations and experiments.

A few silk cocoons and larvæ were sent from Salem to the Government Central Museum.

Vateria malabarica.—The District Forest-officer, South Canara, reports that he sent some *Vateria malabarica* fruits to the Government Botanist, and to the Agri-Horticultural Society. The seeds appear to have germinated, and the seedlings to have grown well in Madras. Some candles also, made of the tallow, have been sent to the Government Botanist.

Exd. W. J. Lewis.

Annual Form No. 59-A.

Forest Department, Madras, Southern Circle.

Area of reserved forests, 1887-88.

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput	Saidápet	Tandrai	664	..	..	..	664	..	....	
	Chingleput	Tirukalikundram	697	..	..	..	697	..	....	
		Uragadam	540	..	..	..	540	..	....	
		Madayatúr	697	..	..	..	697	..	....	
		Vandalúr	3,207	..	..	..	3,207	..	....	
	Tiruvallúr	Kámbákam	14,951	..	..	..	14,951	..	....	
		Ambakam	5,259	..	..	..	5,259	..	....	
		Sativédu	6,859	..	..	..	6,859	..	....	
		Aradúr	2,680	..	..	..	2,680	..	....	
		Kadúr	2,494	..	..	..	2,494	..	....	
		Ugumudi	2,884	..	..	..	2,884	..	....	
		Nágalápuram	..	..	8,345	..	8,345	..	G.O., Nos. 332, 332-A, dated 28th March 1887, embodied in Board's Proceedings, No. 230 (Forest), dated 23rd April 1887.	Transferred from 59-C.
		Allikuli	..	..	5,649	..	5,649	..		
		Alamadi	..	..	1,263	..	1,263	..		
		Total ..	40,932	64·0	15,257	..	56,189	87·80		
North Arcot.	Vellore, Pólúr taluk ..	Carnatic Ghúr	7,069·17	..	..	..	7,069·17	..	No. 241, F.S.G.G., dated 18th December 1884.	Demarcated and surveyed.
		Ammerdi plantation	25	..	..	..	25	..		
		Ambúr fuel reserve	3,840	..	..	..	3,840	..		
		Palamadi	6,400	..	..	..	6,400	..	No. 96, F.S.G.G., dated 31st March 1885.	Demarcated.
		Ambúr plantation	5	..	..	..	5	..	No. 241, F.S.G.G., dated 8th December 1884.	Demarcated and surveyed.
	Chandragiri, Chandragiri taluk.	Napier reserve	8,772	..	..	..	8,772	..	No. 158, F.S.G.G., dated 16th June 1885.	Demarcated, fenced and surveyed.
		Mamandúr do.	1,776	..	..	..	1,776	..		
		Chamala do.	9,600	..	..	..	9,600	..		Demarcated.
		Panapak do.	6,400	..	..	..	6,400	..		
		Podipatla Bail	2,560	..	..	..	2,560	..		
		Gazerlamandiyam	250	..	..	..	250	..		Partly surveyed and fenced.
		Paradarámi	15,241·83	..	..	..	15,241·83	..	No. 89, F.S.G.G., dated 8th February 1887.	Demarcated and surveyed.
	Palmanér, Gudiyátam taluk.	Ambúr drug	5,760	..	..	..	5,760	..	No. 241, F.S.G.G., dated 18th December 1884.	Demarcated.

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Arcot—*cont.*	Palmanér taluk ..	Musalimadugu	9,600	..	..	..	9,600	..	No. 158, F.S.G.G., dated 16th June 1885.	Demarcated.
		Basvireddipallé	10,240	..	..	..	10,240	..	No. 275, F.S.G.G., dated 2nd October 1885.	
		Peddúr	9,600	..	..	..	9,600	..	No. 158, F.S.G.G., dated 16th June 1885.	
		Palmanér	2	..	..	..	2	..	No. 158, F.S.G., dated 16th June 1885.	Fenced.
		Nagamangalam	31	..	..	..	31	..		
		Piduguvaripalle	20	..	..	..	20	..		
		Venkatagirikota	4	..	..	..	4	..		
		Bireddipalle	4	..	..	..	4	..		
	Palmanér and Gudiyátam taluks.	Martana	16,000	..	..	..	16,000	..	No. 158, F.S.G.G., dated 16th June 1885.	Demarcated.
		Naikanéri	6,400	..	..	..	6,400	..		
		Tiruvalam plantations ..	435	..	..	..	435	..	No. 241, F.S.G.G., dated 18th December 1884.	Demarcated, surveyed and fenced.
	Gudiyátam taluk ..	Virinjipuram do. ..	260	..	..	..	260	..		
		Chainúr do. ..	130	..	..	..	130	..		
		Amundi	160	..	..	..	160	..		Demarcated and fenced.
		Tandrayagunta	2	..	..	..	2	..		
	Head-quarter and Arcot taluk.	Punganúr	3,743·37	..	..	..	3,743·37	..	No. 96, F.S.G.G., dated 31st March 1885.	Demarcated and surveyed.
		Kilminnel	150	..	..	..	150	..	No. 241, F.S.G.G., dated 18th December 1884.	Demarcated, surveyed and fenced.
		Vannivedu	30	..	..	..	30	..	No. 158, F.S.G.G., dated 16th June 1885.	Demarcated and fenced.
		Arkónam Sub-Magistrate's compounds.	5	..	..	..	5	..		Surveyed and fenced
		Arkónam plantation	37	..	..	..	37	..		
		Total ..	124,552·37	194·62	..	..	124,552·37	194·62		
South Arcot.	No. I, Tiruvannámalai.	Annamalai forest	1,760	..	..	..	1,760	..	From 1st June 1885, F.S.G.G., dated 2nd June 1885.	Notified under section 25.
		Chinnasamudram	..	..	6,018·81	..	6,018·81	..	From 1st October 1887, F.S.G.G., dated 9th August 1887.	Transferred from 59-C.
		Mudinai	..	..	4,000·33	..	4,000·33	..		
		Perungolatúr Swamimalai ..	..	..	9,000	..	9,000	..		

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot-*cont.*	No. II, Tindivanam..	Siruvadi	..	..	3,335·31	..	3,335·31	..	From 1st December 1887, F.S G.G., dated 11th October 1887.	Transferred from 59-C.
		Muttakadu	..	..	3,094·76	..	3,094·76	..		
		Karai	..	..	1,345·65	..	1,345 65	..		
		Kurumbaram second bit ..	..	..	150	..	150	..	From 1st February 1888, F.S. G.G. dated 20th December 1887.	
		Kilsévúr	..	..	1,207·74	..	1,207·74	..		
		Saram	..	..	251·03	..	251·03	..		
		Salavadi	..	..	70	..	70	..		
		Attikuppam	..	..	150	..	150	..		
		Akshikádu	..	..	450	..	450	..		
	No. III, Villupuram ..	Gangavaram	..	..	8,740	..	8,740	..	From 1st December 1887, F.S. G.G., dated 11th Oct. 1887.	
		Total ..	1,760	2·75	37,813·63	..	39,573·63	61·83		
Salem ..	Salem	Bódamalai	5,600	..	..	..	5,600	..	....	
		Átúr ghát	3,142	..	..	..	3,142	..	....	
		Kutár	3,795	..	..	..	3,795	..	....	
		Nartenchedu extension ..	1,088	..	..	..	1,088	..	....	
		Yerimalai	3,520	..	..	..	3,520	..	....	Kariyappakombai block, of 265 acres, is fire-protected.
		Pillapallikombai, new ..	2,080	..	..	..	2,080	..	....	Pillapallikombai block, of 981 acres, is fire-protected.
		Átúr ghát extension	544	..	..	..	544	..		
		Karuvattuparai	1,800	..	..	..	1,800	..	....	Karuvattuparai block, of 837 acres, is fire-protected.
		Nartenchedu	..	..	2,400	..	2,400	..	No. 244 F.S.G.G., dated 5th July 1887.	
		Vaniyar	..	..	4,512	..	4,512	..	No. 279, F.S.G.G., dated 26th July 1887.	
		Manjavadi ghat	..	..	8,461	..	8,461	..	No. 251, F S.G.G., 5th July 1887.	
		Ajampatti	..	..	1,920	..	1,920	..	No. 278, F.S.G.G., dated 26th July 1887.	
		Kanavoipudúr	..	..	3,200	..	3,200	..	No. 358, F.S.G.G., dated 25th October 1887.	Vadagampatti block of 1,976 acres and Kariyappakombai block, of 266 acres, are fire-protected.

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem—*cont.*	Salem—*cont.*	Lókúr	..	..	5,312	..	5,312	..	No. 358, F S.G.G., dated 25th October 1887.	Morúr block of 799 acres and Ammaneri block of 252 acres are fire-protected.
		Kanjéri, new	..	..	4,032	..	4,032	..	No. 192, F.S.G.G., dated 17th May 1887.	Kanjiri block of 1,929 acres and Pannikaradu block of 1,323 acres are fire-protected.
		Pannikaradu (new)	..	..	4,832	..	4,832	..	No. 358, F.S.G.G., dated 25th October 1887.	Pannikaradu block, of 1,322 acres, is fire-protected.
		Mallápuram	..	..	589	..	589	..		Mallapuram block, of 587 acres, is fire-protected.
	Átúr	Bélúr	6,880	..	..	..	6,880	..	....	
		Nagúr	3,757	..	..	..	3,757	..	....	
		Varagúr	..	..	2,675	..	2,675	..	No. 360, F S G.G., dated 25th October 1887.	
		Nayakenkombai	..	..	2,880	..	2,880	..	No. 169, F S.G.G., dated 26th April 1887.	
	Námakal	Jambútu	2,617	..	..	..	2,617	..	....	
		Puliyan Shola	..	..	5,530	..	5,530	..	No. 316, F.S.G G., dated 13th September 1887.	
	Átúr and Námakal ..	Karavillikombai	8,755	..	..	..	8,755	..	....	
	Uttankarai	Pilapadi	8,000	..	..	..	8,000	..	....	
		Tumbakal	7,757	..	..	..	7,757	..	....	
		Chitteri	3,917	..	..	..	3,917	..	....	
		Kottapatti	8,960	..	..	..	8,960	..	....	
		Puvampatti	4,672	..	..	..	4,672	..	....	
		Chittilingi	..	..	6,880	..	6,880	..	No. 306, F.S.G.G., dated 23rd August 1887.	
		Singarapet	..	..	2,624	..	2,624	..	No. 257, F.S.G.G., dated 12th July 1887.	Singarapet block, of 2,624 acres, is fire-protected.
	Tirupatúr	Mangalam	6,080	..	..	..	6,080	..	....	
		Nagalutu	2,560	..	..	..	2,560	..	....	Kotúr block, of 1,213 acres, is fire-protected.
		Mambakam	9,370	..	..	..	9,370	..	....	
		Púnkulam	7,834	..	..	..	7,834	..	....	
		Madakadapa	2,048	..	..	..	2,048	..	....	
		Jálárpet	1,216	..	..	..	1,216	..	....	

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem—*cont.*	Tirupatúr—*cont.*	Narasingapuram	2,048	..	..	..	2,048	..	....	
		Kalarapatti	2,016	..	..	..	2,016	..	....	
		Alangayam	..	..	11,520	..	11,520	..	No. 208, F.S.G.G., dated 31st May 1887.	
	Tirupatúr and Úttankarai.	Singarapet extension	..	..	7,398	..	7,398	..	No. 211, F.S.G.G., dated 31st May 1887.	
	Hosúr	Aiyúr	..	..	5,952	..	5,952	..	No. 120, F.S.G.G., dated 8th March 1887.	Mailgiri block, of 5,461 acres, is fire-protected.
		Marandahalli	..	..	5,824	..	5,824	..	No. 115, F.S.G.G., dated 2nd March 1887.	
		Gulhatti (new)	..	..	7,942	..	7,942	..	No. 318, F.S.G.G., dated 13th September 1887.	Gulhatti block of 3,248 acres and Kanavoikottapalli block of 371 acres are fire-protected.
		Manchi (new)	..	..	5,632	..	5,632	..	No. 152, F.S.G.G., dated 29th March 1887.	Manchi block, of 3,305 acres, is fire-protected.
		Tóluvabetta	..	..	6,918	..	6,918	..	No. 204, F.S.G.G., dated 25th May 1887.	Kanavanagasundram block of 416 acres and Kanavoikottapalli block of 371 acres are fire-protected.
		Anchetti	..	..	8,832	..	8,832	..	No. 182, F.S.G.G., dated 10th May 1887.	
		Natrapalaiyam	..	..	10,880	..	10,880	..	No. 212, F.S.G.G., dated 31st May 1887.	
		Biligundla	..	..	14,272	..	14,272	..	No. 372, F.S.G.G., dated 15th November 1887.	
		Kestúr	..	..	11,616	..	11,616	..	No. 107, F.S.G.G., dated 22nd February 1887.	
		Bilikal	..	..	11,136	..	11,136	..	No. 214, F.S.G.G., dated 31st May 1887.	
		Malahalli	..	..	8,928	..	8,928	..	No. 303, F.S.G.G., dated 23rd August 1887.	
		Taggatti	..	..	10,432	..	10,432	..	No. 209, F.S.G.G., dated 31st May 1887.	
		Javalagiri	..	..	6,016	..	6,016	..	No. 305, F.S.G.G., dated 23rd August 1887.	

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem—*cont.*	Hosúr—*cont.*	Talli	..	..	6,368	..	6,368	..	No. 255 F.S.G.G., dated 12th July 1887.	
		Denkanikóta	..	..	2,816	..	2,816	..	No. 335, F.S.G.G., dated 27th September 1887.	
	Dharmapuri	Pennagaram	..	..	10,304	..	10,304	..	No. 307, F.S.G.G., 23rd August 1887.	
	Hosúr and Dharmapuri.	Woddapatti	..	..	17,152	..	17,152	..	No. 371, F.S.G.G., dated 6th December 1887.	
	Dharmapuri and Hosúr.	Gutirayan	..	..	15,776	..	15,776	..	No. 340, F.S.G.G., dated 4th October 1887.	
	Krishnagiri	Bargúr (new)	..	..	1,920	..	1,920	..	No. 206, F.S.G.G., dated 25th May 1887.	Bargúr block, of 220 acres, is fire-protected.
		Togarapalli	..	..	901	..	901	..	No. 359, F.S.G.G., dated 25th October 1887.	Togarapalli block, of 499 acres, is fire-protected.
	Krishnagiri and Tirupatúr.	Kotúr	..	..	3,640	..	3,840	..	No. 170, F.S.G.G., dated 26th April 1887.	Pudúr block of 1,069 acres, is fire-protected.
		Total	110,056	171·96	(a) 248,222	..	358,278	559·81		(a) Transferred from 59-C.
Trichinopoly.	Kulitalai	Elamanúr	117·10	..	..	..	117·10	..	....	
		Kulitalai	77·18	..	..	..	77·18	..	....	
		Manattatai	44·86	..	..	..	44·86	..	....	
		Lálápet	213	..	55·20	..	268·20	..	....	
		Sitalavoi	160·32	..	..	..	160·32	..	....	*As per working plan.
		Kattalai	74·35	..	..	..	74·35	..	....	
		Ténmalai	640	..	..	† 176	464	..	....	
		Minnakarudu	98	..	..	..	98	..	....	
		Panjantangi	1,543	..	..	..	1,543	..	....	
		Pettuvoitalai	137	..	..	..	137	..	....	
		Viramalai Hills	..	..	(a) 2,000	..	2,000	..	....	(a) Transferred from 59-C.
		Poiyapatti Hills	..	..	(a) † 639	..	639	..	....	† By actual survey.
		No. 1, Shemmalai	..	..	(a) 400 1,400	..	1,800	..	....	
		Pakkirikaradu	..	..	(a) † 65	..	65	..	....	

Area of reserved forests, 1887-88—*cont.*

District	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Trichinopoly—*cont.*	Kulitalai—*cont.* ..	Puttanatam range comprising Kuramalai, Pulámalai and Nadumalai	..	..	* 798	..	798	..	....	Of this, 500 acres transferred from 59-C
		Surpam range	..	..	(*a*) 700 +1,065	..	1,765	..	....	* By actual survey. (*a*) Transferred from 59-C.
	Musiri	Sengattupatti	3,000	..	..	..	3,000	..	....	
		Melúr	3,000	..	..	..	3,000	..	....	
	Perambalúr	Manalodai	4,000	..	..	..	4 000	..	....	
		Salamatti	7,000	..	..	..	7,000	..	....	
	Trichinopoly	Tuvagudi	..	..	(*a*) 1,438	..	1,438	..	No. 248, F.S G.G., dated 5th July 1887.	
		Total ..	20,104 81	31 41	8,560·20	176	28,489·01	44 51		
Tanjore ..	Southern	Block No. II, Meltottam eastern block.	..	..	10	..	10	..	Declared under section 16 of the Madras Forest Act, *vide* G O., dated 25th January 1888, No. 92.	
		Block No. III, Meltottam western block.	..	..	8	..	8	..		
		Total ..	..	..	18	..	18	·03		
North Coimbatore	Kollegál	Jadatalayhulla	361·01	..	..	..	361·01	..	No. 217, F.S G.G., dated 21st December 1883.	Sandalwood reserves demarcated, surveyed and mapped. Notified under section 25. These four blocks will be merged hereafter in larger areas of reserved forest.
		Udayárpálaiyam	296·63	..	..	..	296·63	..		
		Bailúr	1,186·39	..	..	..	1,186·39	..		
		Germalam	519·78	..	..	..	519·78	..		
	Satyamangalam ..	Vellamundi	12,800	..	..	..	12,800	..	No. 174, F.S.G.G., dated 7th July 1885.	Notified under section 16.
		Eastern slopes of the Nilgiris.	48,000	..	..	..	48,000	..	No. 87, F.S.G G., dated 17th March 1886, page 193, and No 143, F.S.G G , dated 28th April 1886, page 409.	
		Total ..	63,163·81	98·69	..	..	63,163 81	98·69		

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
South Coimbatore.	Tunakadavu	Anaimalais .. No. I	52,480	..	..	..	52,480	..	....	
	Ponachi	Do. .. „ II	3,140	..	..	..	3,140	..	....	
	Udamalpet	Do. .. „ III	47,360	..	..	..	47,360	..	....	
	Pollâchi and Udamalpet.	Anaimalais	133,120	..	..	..	133,120	..	....	
	Bolampatti	Bolampatti block No. I	47,680	..	..	..	47,680	..	....	
		Do. .. „ II								
		Do. .. „ III								
		Tadágam block „ IV	30,720	..	..	..	30,720	..	....	
	Mettupálaiyam ..	Gopaneri block „ V	38,200	..	..	..	38,200	..	....	
		Kempampalaiyam „ VI								
		Nellitorai „ VII								
		Odantorai „ VIII	5,880	..	..	..	5,880	..	....	
		Modúr block „ IX	3,600	..	..	..	3,600	..	....	
		Total ..	362,180	565·91	..	..	362,180	565·91		
Madura ..	No. I, Periyakulam ..	Vannatiparai	27,481·6	..	..	..	27,481·6	..	....	
		Suranganar	3,616	..	..	..	3,616	..	....	
		Mela Gúdalúr..	1,280	..	..	..	1,280	..	....	
		Machakal	2,560	..	..	..	2,560	..	....	
		Kutinachiyar	640	..	..	..	640	..	....	
		Pandaratorai	300	..	..	..	300	..	....	
		Sengalvarai Ár.	5,209·6	..	..	..	5209·6	..	....	
		Pambár	4,755·2	..	..	..	4,755·2	..	....	
		Tambirankanal	250	..	..	..	250	..	....	
		Surulipatti	..	..	5,760	..	5,760	..	....	
		Jungle Conservancy.							No. 315, F S.G.G., dated 13th September 1887, Part I, page 730.	Transferred from 59-C and notified under section 16.
		Virapandi	2	..	..	..	2	..		
		Tamaraikulam	1	..	..	..	1	..		
		Mélamangalam	1·5	..	..	..	1·5	..		
		Vadipatti	1	..	..	..	1	..	....	Reserved forest and tope.
		Gangavarpatti	4	..	..	..	4	..		
		Allinagaram	2	..	..	..	2	..		
		Mottanutu	2	..	..	..	2	..		
	No. II, Kodaikánal ..	Pumbarai and Vilpatti valley	13,587·2	..	..	..	13,587·2	..	....	
		Kudirai Ár	10,060·8	..	..	..	10,060·8	..	....	
		Kukal	9,644·8	..	..	..	9,644·8	..	....	
		Marudanadiyár	6,528	..	..	..	6,528	..	....	

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
		Jungle Conservancy—cont.								
		Pambúkal Ár	800	..	..	..	800	..	....	
		Siruvattukádu	2,279·2	..	..	..	2,279·2	..	....	
		Kaniyankádu	3,001·6	..	..	..	3,001·6	..	....	
		Vennilai	4,800	..	..	..	4,800	..	....	
		Ariyanutukánal	64	..	..	..	64	..	....	
		Kumangovaimalai kádu ..	80	..	..	..	80	..	....	
		Peterankánal	80	..	..	..	80	..	....	
		Varattarkanal	200	..	..	..	200	..	....	
		Iruttarkanal	100	..	..	..	100	..	....	
		Nochiárkádu	200	..	..	..	200	..	....	
		Talaiar Andarkoil kádu ..	30	..	..	..	30	..	....	
		Talaiar kádu	150	..	..	..	150	..	....	
		Kadamaravu	50	..	..	..	50	..	....	
		Vilamkombai	1,600	..	..	..	1,600	..	....	
		Parappár	42	..	..	..	42	..	....	
		Kadugutadikádu	..	..	1,280	..	1,280	..	No. 68, F.S.G.G., dated 28th February 1888.	Reserved forest and plantation.
		Oliyanútodai	..	..	3,200	..	3,200	..	No. 70, F.S.G.G., dated 28th February 1888.	Transferred from 59-C.
Madura—*cont.*	No. II, Kodaikánal—*cont.*	Sholas on the Lower Palnis—								
		(*a*) Perumalmalai shola ..								
		(*b*) Togavarai shola ..								
		(*c*) Sirutarkanal								
		(*d*) Arankanal								
		(*e*) Kadavu shola								
		Sholas on the Upper Palnis—								
		(*a*) Tiger shola								
		(*b*) Parappar shola	2,316	..	..	..	2,316	..	....	
		(*c*) Kodaikánal								
		(*d*) Pannitutamkanal ..								
		(*e*) Gunden and Manavan sholas.								
		(*f*) Gunden shola								
		(*g*) Sandanam shola ..								
		(*h*) Fort Hamilton								
		(*i*) Mariyan shola								
		Plantations.								
		Eucalyptus	16·62	..	..	..	16·62	..	....	
		Acacia	14	..	..	..	14	..		Reserved forest and plantation.
		Velamkombai	54·14	..	..	..	54·14	..		

Area of reserved forests, 1887-88—*cont.*

District	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
		Jungle Conservancy.								
Madura—*cont.*	No. II, Kodaikánal—*cont.*	Kodaikánal settlement	3	..	..	..	3	..	.....	Reserved forest and plantation.
		Púmbarai	6	..	..	..	6	..	....	
		Virupatchi	7·15	..	..	..	7·15	..	....	Reserved forest and tope.
		Sivagiripatti	1·15	..	..	..	1·15	..	....	
	No. III, Dindigul ..	Sirumalai	25,529·6	..	..	..	25,529·6	..	....	
		Mudimalai	6,086·4	..	..	..	6,086·4	..	....	
		Akkammakaradu	1,600	..	..	..	1,600	..	....	
		Kappuravalikuttu	2,560	..	..	..	2,560	..	....	
		Tenkal	3,200	..	..	..	3,200	..	....	
		Sundamalai	2,240	..	..	..	2,240	..	....	
		Tannirkaradu	1,920	..	..	..	1,920	..	....	
		Kadavakurchi	5,120	..	..	..	5,120	..	....	
		Sengattampatti	4,480	..	..	..	4,480	..	....	
		Dindigul at the junction of Trichinopoly and Karúr roads.	1	..	..	..	1	..		
		Dindigul Munsif's Court ..	·59	..	..	..	·59	..		
		Do. race-course ..	4	..	..	..	4	..	....	Reserved forest and tope.
		Kovilúr	1·19	..	..	..	1·19	..		
			·15	..	..	..	·15	..		
		Gúdalúr	1·18	..	..	..	1·18	..		
		Guvakapatti	130·52	..	..	..	130·52	..		
	No. IV, Mélúr ..	Mudugamalai	2,700	..	..	..	2,700	..	....	
		Vellamalai								
		Perumalmalai								
		Pillayarnattam Hills ..								
		Navinipatti	12	..	..	..	12	..	....	Reserved forest and tope.
	No. V, Madura ..	Alagarmalai	13,036	..	..	..	13,036	..	....	
		Tenapudupettai	126 78	..	..	..	126·78	..	....	Reserved forest and tope.
		Sakimangalam	467·94	..	..	..	467·94	..	....	
		Nagamalai	2,346	..	..	..	2,356	..	....	
		Vikramangalam	10,240	..	..	..	10,240	..	....	
		Tenúr	11·78	..	..	..	11·78	..	....	Reserved forest and tope.
		Tovarimán	21	..	..	..	21	..	....	
		Total ..	183,667·69	286·98	10,240	..	193,907 69	302·98		

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Tinnevelly	Nángunéri	Reserve No. I	31,532·80	..	..	..	31,532·80	..	Constituted reserved forests under section 25, Forest Act, in G.O., No. 257, dated 11th February 1881.	
	Ambásamudram	Do. ,, II	91,008	..	..	..	91,008	..		
	Tenkási	Do. ,, III	18,009·60	..	..	..	18,009·60	..		
	Sankaranainárkoil ..	Do. ,, IV	19,737·60	..	..	..	19,737·60	..		
	Srívilliputur	Do. ,, V	23,270·40	..	..	..	23,270 40	..		
		Total ..	183,558·40	286·81	..	..	183,558·40	286·81		
North Malabar.	Chedlet reserved forest.	Kuppadi block	7,337·44	..	..	..	7,337·44	..	....	
		Kurchiyat ,, ...	18,053·86	..	..	..	18,053·86	..	....	
		Rampúr ,, ...	18,854 67	..	..	..	18,854·67	..	....	
	Trans Beni	Nulpoya	3,613·28	..	..	..	3,613·28	..	....	
		Mavanhulla	12,576·64	..	..	..	12,576 64	..	....	
		Bégur reserved forest ..	15,366	..	..	..	15,366	..	....	
		Total ..	75,801·89	118·44	..	..	75,801·89	118·44		
		Ernád Taluk.								
South Malabar.	Nilambúr	Karimpoya reserve ..	3,955·28	..	..	..	3,955·28	..	....	
		Amarampalaiyam ,, ..	468·04	..	..	..	468·04	..	....	
		Chatambarai ,, ..	699·52	..	..	..	699·52	..	....	
		Nellikutta ,, ..	1,824·13	..	..	..	1,824·13	..	....	
	Pálghat	Walayár ,, ..	3,017·00	..	..	..	3,017·00	..	....	
		Chenat Nair ,, ..	..	..	15,203·00	..	15,203·00	..	Finally notified under section 16, F.S.G.G., dated 5th April 1887. Transferred from 59-C.	The Pálghat range was transferred as per F.S.G.G. notification, dated 8th February 1888.
		Total ..	9,963·97	15·57	15,203·00	..	25,166·97	39·32		
South Canara.	Condapur	No. I, Sabladi	208	..	..	..	208	..	....	
	Udipi	,, II, Ajjarkad	160	..	..	..	160	..	....	
		,, III, Pillarkhan	320	..	..	..	320	..	....	

Area of reserved forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Canara—*cont.*	Mangalore	Nos. IV and V, Poitagi, Kayar Palla.	96	..	..	..	96	..	....	
		No. VI, Chembugudi ..	75	..	..	..	75	..	....	
		„ VII, Kuttiyar	25	..	..	..	25	..	....	
	Uppinangadi	The Siradi Sisla reserve ..	..	..	19,200	..	19,200	..	G.O., 31st March 1887, Forest No. 46, in Board's Proceedings, Forest No. 240, dated 29th April 1887.	The areas given of these reserves is a mere estimate, as they have not been surveyed and have been transferred from 59-C.
		The Bhagimalai	..	..	6,400	..	6,400	..		
		Total ..	884	1·38	25,600	..	26,484	41·38		
		Grand Total ..	1,176,624·94	1,838·50	360,913·83	176	1,537,362·77	2,402·13		

ABSTRACT.

Chingleput..	....	....	40,932	64·0	15,257	..	56,189	87·80	....	
North Arcot.	....	....	124,552·37	194·61	..	..	124,552·37	194·62	....	
South Arcot.	....	....	1,760	2·75	37,813·63	..	39,573·63	61·83	....	
Salem ..	....	....	110,056	171·96	248,222	..	358,278	559·81	....	
Trichinopoly	....	....	20,104·81	31·41	8,560·20	176	28,489·01	44·51	....	
Tanjore ..	....	....	..	..	18	..	18	·03	....	
North Coimbatore.	....	....	63,163·81	98·69	..	..	63,163·81	98·69	....	
South Coimbatore.	....	....	362,180	565·91	..	..	362,180	565·91	....	
Madura ..	....	....	183,667·69	286·98	10,240	..	193,907·69	302·98	....	
Tinnevelly .	....	....	183,558·40	286·81	..	..	183,558·40	286·81	....	
North Malabar.	....	....	75,801·89	118·44	..	..	75,801·89	118·44	....	
South Malabar.	....	....	9,963·97	15·57	15,203	..	25,166·97	39·32	....	
South Canara.	....	....	884	1·38	25,600	..	26,484	41·38	....	
		Total ..	1,176,624·94	1,838·50	360,913·83	176	1,537,362·77	2,402·13		

Annual Form No. 59-B.

Forest Department, Madras, Southern Circle.

Area of forests, 1887-88, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882.

District.	Range.	Name of forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput ..	Tiruvallúr	Namalúr	938	..	..	..	938	..	....	
		Palavakam	436	..	..	* 436	..	..	....	* The area was shown twice over in last year's statement and one entry is therefore now excluded.
		Kolatur	248	..	..	..	248	..	....	
		Kuvakolli	156	..	..	..	156	..	....	
		Total ..	1,778	2·78	..	436	1,342	2·10		
North Arcot ..	....	....	..	..	..	..	..	..	....	
South Arcot	No. I, Tiruvannámalai.	Annamalai kasba hill and neighbourhood	2,080	..	..	..	2,080	..	....	
		Tandrampet	11,500	..	..	..	11,500	..	....	
		Kadambai	1,000	..	..	..	1,000	..	....	
		Tachampet, including Attipakam..	1,000	..	..	..	1,000	..	....	
		Annamangalam	250	..	..	..	250	..	....	
		Vallanad Sevúr	1,115	..	..	..	1,115	..	....	
		Nangilikondan	50	..	..	..	50	..	....	
		Natamangalam	30	..	..	..	30	..	....	
		Vilukam	100	..	..	..	100	..	....	
		Olakúr	300	..	..	..	300	..	....	
		Roshanai	50	..	..	..	50	..	....	
		Edayalam	400	..	..	..	400	..	....	
		Eriyanúr	95	..	..	..	95	..	....	
	No. II, Tindivanam ..	Jaggampet	108	..	..	..	108	..	....	
		Senalúr	150	..	..	..	150	..	....	
		Mannúr	50	..	..	..	50	..	....	
		Nemmalai	300	..	..	..	300	..	....	
		Endúr	50	..	..	..	50	..	....	
		Bramhadésam	50	..	..	..	50	..	....	
		Vannipper	50	..	..	..	50	..	....	
		Nadukuppam to Bramhadésam ..	400	..	..	..	400	..	....	
		Kandadu	370	..	..	..	370	..	....	
		Omapper	20	..	..	..	20	..	....	
		Mailam	265	..	..	..	265	..	....	

Area of forests, 1887-88, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*cont.*

District.	Range.	Name of forest	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. III, Villupuram..	Tandavasamudram	3,000	..	..	2,000	1,000	..	....	Transferred to 59-C.
		Matúr	540	..	..	..	540	..	....	
		Turinjikádu	1,104	..	..	700	404	..	....	Do.
		Odayanatam and Kadayam ..	1,000	..	..	..	1,000	..	....	
		Vanúr first bit	200	..	..	..	200	..	....	
		Vanúr second bit	150	..	..	..	150	..	....	
		Kalikoil	200	..	..	..	200	..	....	
		Chengadu	100	..	..	..	100	..	....	
		Vakkúr	200	..	..	200	..	..	....	Do.
		Kappianúr	545	..	..	545	..	..	....	
		Mutampalaiyam	50	..	..	..	50	..	....	
		Navamal Maradúr	80	..	..	..	80	..	....	
		Aliyúr	70	..	..	..	70	..	....	
		Neliyanúr	70	..	..	..	70	..	....	
		Valavanúr (now Gangarampalaiyam)	344	..	..	344	..	..	....	Do.
		Pakam	350	..	..	..	350	..	....	
		Sorapúr	50	..	..	..	50	..	....	
		Marudúr	70	..	..	..	70	..	....	
		Villupuram kasba tank	100	..	..	..	100	..	....	
		Valutareddi	130	..	..	130	..	..	....	Do.
		Kandampakam	60	..	..	..	60	..	....	
		Olaikai	50	..	..	..	50	..	....	
		Kappúr	50	..	..	..	50	..	....	
		Kondangi	100	..	..	..	100	..	....	
		Nannadu	100	..	..	..	100	..	....	
		Perumbákam	100	..	..	..	100	..	....	
		Dévanampet	100	..	..	..	100	..	....	
		Tiruvamatúr	28	..	..	..	28	..	....	
		Tennamadevi	51	..	..	..	51	..	....	
		Adanúr	1,449	..	..	1,449	..	..	....	Do.
		Oratúr now Sattanúr second bit ..	228	..	..	228	..	..	....	
		Tangal	57	..	..	..	57	..	....	
		Karanai	200	..	..	200	..	..	....	Do.
		Gundalapuliyúr	844	..	27	871	..	..	....	Do.
		Siruvalai (Arumbili)	1,014	..	..	..	1,014	..	....	
		Vembi	256	..	..	..	256	..	....	
		Narasinganúr	377	..	..	377	..	..	....	Do.
		Vikkravándi proper	450	..	12	312	150	..	....	
		Do. tangal	20	..	..	..	20	..	....	
		Melakondai	495	..	..	495	..	..	....	Do.

Area of forests, 1887-88, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks
			Acres.	Equivalent in square miles	Acres.	Acres	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. III, Villupuram—*cont.*	Satanúr	233	..	5	238	..	..	....	Transferred to 59-c.
		Panampattu	250	..	4	254	..	..	....	
		Salıyampalaıyam	70	..	..	..	70	..	....	
		Nemmalai	100	..	..	..	100	..	....	
		Dadavaram	200	..	..	..	200	..	....	
		Tıruvakkarai	1,000	..	..	..	1,000	..	....	
		Tuluvai	150	..	..	..	150	..	....	
	No. IV, Cuddalore ..	Selambanadampet	1	..	..	..	1	..	....	
		Badrakótai	344	..	..	..	344	..	....	
		Kanjıruppu	10	..	..	..	10	..	....	
		Véludayampattu	100	..	..	..	100	..	....	
		Kalıyankuppam	150	..	..	..	150	..	....	
		Kuttıyambakam	100	..	..	..	100	..	....	
		Siruvatur	300	..	..	..	300	..	....	
	No. IV, Chidambaram.	Pıchavaram	2,000	..	..	..	2,000	..	....	
		Ramapakam	800	..	..	..	800	..	....	
		Kondapuram	1,200	..	..	..	1,200	..	....	
		Pavanji Nallúr	200	..	..	..	200	..	....	
		Kollatankurchi	350	..	..	..	350	..	....	
		Nıeangam	800	..	..	..	800	..	....	
		Adıvaraganallúr	1,200	..	..	..	1,200	..	....	
		Kelakudı (east of road)	600	..	..	..	600	..	....	
		Pınnalúr (Wálajápet tank block) ..	400	..	..	..	400	..	....	
		Manamádévı	150	..	..	..	150	..	....	
		Vıranam tank	1,500	..	..	..	1,500	..	....	
		Nattamúr	9,500	..	..	..	9,500	..	....	
		Chittamur	3,000	..	..	..	3,000	..	....	
		Arunávaram	2,650	..	..	..	2,650	..	....	
		Odıyatúr	2,500	..	..	..	2,500	..	....	
		Endúr	1,000	..	..	..	1,000	..	....	
		Vırınjıpuram and Kandachipuram.	1,500	..	..	..	1,500	..	....	
		Adukam (Tandarai)	1,500	..	..	.	1,500	..	....	
	No. V, Tırukovilúr ..	Atıpakam	2,000	..	..	..	2,000	..	....	
		Sadakati	500	..	..	..	500	..	....	
		Swamımalai	4,000	..	..	..	4,000	..	....	
		Maradúr	2,220	..	..	..	2,220	..	....	
		Ulandúrpet (Pandúr)	2,500	..	..	..	2,500	..	....	
		Edakal proper (south of road) ..	900	..	..	..	900	..	....	
		Do. (north of road) ..	3,600	..	..	..	3,600	..	....	
		Alwarmalai	6,500	..	..	..	6,500	..	....	

Area of forests, 1887-88, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. V, Tirukovilúr—*cont.*	Siruvakam	1,200	..	..	..	1,200	..	....	
		Kutadi	2,250	..	..	..	2,250	..	....	
		Sidévi	3,000	..	..	..	3,000	..	....	
		Kunjaram	1,500	..	..	..	1,500	..	....	
		Kallamédu	500	..	..	..	500	..	....	
		Elandorai (late Ponnavalam) ..	200	..	..	..	200	..	....	
		Tiruvennainullúr	40	..	..	..	40	..	....	
		Emappúr	70	..	..	..	70	..	....	
		Siruvanúr	50	..	..	..	50	..	....	
		Iruvelpet	50	..	..	..	50	..	....	
		Mélmangalam	40	..	..	..	40	..	....	
		Mamandúr	50	..	..	..	50	..	....	
		Gramam	40	..	..	..	40	..	....	
		Elandorai tank	40	..	..	..	40	..	....	
		Panapakam	50	..	..	..	50	..	....	
		Sitilingamadam	70	..	..	..	70	..	....	
		Maradúr tank bed	60	..	..	..	60	..	....	
		Pudupalaiyam	40	..	..	..	40	..	....	
		Palayagram	65	..	..	..	65	..	....	
	No. VI, Kallakurchi ..	Kanakádu	1,200	..	..	..	1,200	..	....	
		Kadambúr	100	..	..	..	100	..	....	
		Kaduvanúr	1,500	..	..	..	1,500	..	....	
		Katuvananjúr	800	..	..	..	800	..	....	
		Lálápet forest, including Chittal ..	1,500	..	..	..	1,500	..	....	
		Vengalam Pasar	3,000	..	..	..	3,000	..	....	
		Rishivendiyam	3,000	..	..	..	3,000	..	....	
		Nilamangalam	150	..	..	..	150	..	....	
		Emaputtúr	1,000	..	..	..	1,000	..	....	
		Kolatúr	300	..	..	..	300	..	....	
		Indali	1,000	..	..	..	1,000	..	....	
		Katalamalai	2,500	..	..	..	2,500	..	....	
		Nagalúr	900	..	..	..	900	..	....	
		Porasakurchi	750	..	..	..	750	..	....	
		Varansaram	450	..	..	..	450	..	....	
		Kuttakudi	1,000	..	..	..	1,000	..	....	
		Kilnariyappanúr	1,500	..	..	..	1,500	..	....	
		Varadiyappanúr	500	..	..	..	500	..	....	
		Chinna Salem	200	..	..	..	200	..	....	
		Tottapadi	250	..	..	..	250	..	....	
	No. VII, Vriddháchalam.	Velankulam and Vennakuli ..	500	..	..	..	500	..	....	

Area of forests, 1887-88, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*—	No. VII, Vriddháchalam —*cont.*—	Semakotai and Palaiyapatnam ..	4,500	..	..	..	4,500	..	....	
		Pallipattu	1,500	..	..	..	1,500	..	....	
		Erulakurchi	300	..	..	..	300	..	....	
		Mélakuppankulam	600	..	..	..	600	..	....	
		Parúr	3,000	..	..	..	3,000	..	....	
		Narimadam	600	..	..	..	600	..	....	
		Ammeri	500	..	..	..	500	..	....	
		Kuppanatam	750	..	..	..	750	..	....	
		Satamangalam	200	..	..	..	200	..	....	
		Arasuguli	100	..	..	..	100	..	....	
		Kolapákam	600	..	..	..	600	..	....	
		Kammapuram	600	..	..	..	600	..	....	
		Kannangudi	2,000	..	..	..	2,000	..	....	
		Narasingamangalam	1,200	..	..	..	1,200	..	....	
		Kotanúr	2,700	..	..	..	2,700	..	....	
		Memadúr	500	..	..	..	500	..	....	
		Pillúr	800	..	..	..	800	..	....	
		Pulambadi	2,000	..	..	..	2,000	..		
		Alambalam	2,000	..	..	..	2,000	..		
		Aderi	1,000	..	..	..	1,000	..		
		Katumailúr	800	..	..	..	800	..	....	
		Naraiyúr	3,000	..	..	..	3,000	..	....	
		Nangúr	1,800	..	..	..	1,800	..	....	
		Mangalam	300	..	..	..	300	..	....	
		Alliyúr	150	..	..	..	150	..	....	
		Pinjanúr	200	..	..	..	200	..	....	
		Kasba tank	200	..	..	..	200	..	....	
		Total ..	153,558	239·93	48	8,343	145,263	226·97	....	
Salem	....	....	..	..	..	..	..	..	....	
Trichinopoly..	Udayárpálayam ..	Sripurandan	486	..	..	..	486	..	....	Excluded the area having been already transferred to 59-C in 1886-87 under Velangudiru
		Nagamangalam	400	..	..	400	..	..	....	
		Total ..	886	1·38	..	400	486	·76		

Area of forests, 1887-88, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Tanjore ..	Northern	Vettangudi	1,900	..	..	1,900	..	..	Notified under section 4, *vide* G.O., dated 8th July 1887, No. 657.	Transferred to 59-C
	Southern	Andrakadu	64	..	..	..	64	..	....	
		Settipalaiyam	421	..	..	..	421	..	....	
		Samudravéli	270	..	..	..	270	..	....	
		Náluvédapadi	374	..	..	..	374	..	....	
		Nadúr	421	..	..	421	..	..	....	Transferred to 59-C
		Tachankurchi	161	..	..	161	..	..	....	
		Kollangorai	109	..	..	109	..	..	....	
		Marungulam	152	..	..	..	152	..	....	
		Karungulam Mélpadi	389	..	..	..	389	..	....	
		Pudukudivadapatti	212	..	..	..	212	..	....	
		Kangiyampatti	67	..	..	..	67	..	....	
		Kannantangudi Kilayúr	232	..	..	..	232	..	....	
		Puvadúr	205	..	..	..	205	..	....	
		Tirumangalakotai Vilayúr ..	437	..	..	..	437	..	....	
		Do. Mélayúr ..	514	..	..	..	514	..	....	
		Ponnappúr	181	..	..	..	181	..	....	
		Apparasampétai	76	..	..	..	76	..	....	
		Pudugidapatnam	66	..	..	..	66	..	....	
		Tandalai	283	..	..	..	283	..	....	
		Ichankotai	77	..	..	..	77	..	....	
		Total ..	6,611	10·33	..	2,591	4,020	6·28		
North Coimbatore.	....	.... ..	..	..	..	..	..	..	....	
South Coimbatore.	Udamalpet	Fuel reserve of Yeliyamutur ..	63	..	..	..	63	..	....	
		Do. of Tandoni	60	..	..	..	60	..	....	
		Do. of Dhalli	485	..	..	..	485	..	....	
		Kotamangalam	3	..	..	..	3	..	....	
		Chinnamalaipalaiyam	9	..	..	..	9	..	....	
		Gudimangalam	5	..	..	..	5	..	....	
		Pulamkinar	4	..	..	..	4	..	....	
		Púkkulam	14	..	..	..	14	..	....	
		Pulavadi	8	..	..	..	8	..	....	
		Madatukulam	3	..	..	..	3	..	....	

Area of forests, 1887-88, reserved under previous orders of Government or regarded as reserves previous to Act V of 1882—*cont.*

District.	Range.	Name of forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square meles.		
South Coimbatore—*cont*	Pollachi	Kanatkadavu	8	..	..	..	8	..	....	
		Sankarayapuram	100	..	..	..	100	..	....	
		Mutiyampalaiyam	4	..	..	..	4	..	....	
		Periyakolandai	3	..	..	..	3	..	....	
		Kotampatti	6	..	..	..	6	..	....	
		Arasúr	58	..	..	..	58	..	....	
		Nachipalaiyam	63	..	..	..	63	..	....	
		Ammapalaiyam	61	..	..	..	61	..	....	
		Kaduvettipalaiyam	82	..	..	..	82	..	....	
		Perumanallúr	81	..	..	..	81	..	....	
		Pudupalaiyam	66	..	..	..	66	..	....	
	Palladam	Fuel reserve, Anupatti	3	..	..	..	3	..	....	
		Sittambalam	3	..	..	..	3	..	....	
		Kottanúr	3	..	..	..	3	..	....	
		Manickapuram	5	..	..	..	5	..	....	
		Tirupúr	5	..	..	..	5	..	....	
		Vadugapalaiyam	8	..	..	..	8	..	....	
		Ganapadipalaiyam	5	..	..	..	5	..	....	
		Appanaiyakanpatti	10	..	..	..	10	..	....	
		Nilambúr	10	..	..	..	10	..	....	
		Silakarakal	5	..	..	..	5	..	....	
		Agrarapudúr	5	..	..	..	5	..	....	
	Bolampatti	At the toll-gate at the road of Tadagam.	9	..	..	..	9	..	....	
		At the toll-gate east of Puliyankulam road.	55	..	..	..	55	..	....	
		Total ..	1,312	2·05	..	..	1,312	2·05	....	
Madura ..	No. V, Madura ..	One hundred and four tank beds in Tirumangalam taluk.	4,000	..	..	..	4,000	..	....	
		Total ..	4,000	6·25	..	..	4,000	6·25	....	
Tinnevelly ..	....	....	..	..	..	..	..	..	....	
North Malabar.	....	....	..	..	..	..	..	..	....	

Area of forests, 1887-88 reserved under previous orders of Government are regarded as reserves previous to Act V of 1882—*cont.*

District	Range.	Name of forest	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Malabar.	Nilambúr	Pokóte	761	..	..	761	..	..	....	Transferred to 59-C.
		Pannangode	859	..	..	859	..	..	....	
		Valuvasheri	914	..	..	914	..	..	....	
		Yedakád	4,359	..	..	4,359	..	..	....	
		Arimbrakuta	322	..	..	322	..	..	....	
		Kanakut	669	..	..	669	..	..	....	
		Erambadam	581	..	..	581	..	..	....	
		Kariyan	1,002	..	..	1,002	..	..	....	
		Muriyat	1,765	..	..	1,765	..	..	....	
		Total ..	11,232	17·55	..	11,232	..	..		
South Canara.	....	....	..	..	..	..	..	..	..	
		Grand Total ..	179,377	280·27	48	23,002	156,423	*244·41		

ABSTRACT.

Chingleput ..	....	....	1,778	2 78	..	436	1,342	2 10	....
North Arcot ..	....	....	..	..	..	..	..	..	....
South do. ..	....	....	153,558	239 93	48	8,343	145,263	226 97	....
Salem ..	....	....	..	..	..	..	..	..	....
Trichinopoly.	....	....	886	1 38	..	400	486	76	....
Tanjore ..	....	....	6,611	10 33	..	2,591	4,020	6 28	....
North Coimbatore ..	....	....	..	..	..	..	..	..	....
South Coimbatore ..	....	....	1,312	2·05	..	..	1,312	2 05	....
Madura ..	....	....	4,000	6 25	..	..	4,000	6 25	....
Tinnevelly ..	....	....	..	..	..	..	..	..	....
North Malabar.	....	....	..	..	..	..	..	..	....
South do	....	....	11,232	17 55	..	11,232	..	..	....
South Canara .	....	....	..	..	..	..	..	..	....
		Total ..	179,377	280·27	48	23,002	156,423	244 41	

Annual Form No. 59-D.

Forest Department, Madras, Southern Circle.

Area of Reserved Lands, 1887-88.

District.	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Chingleput	Tiruvallúr ..	Allikuli	5,649	..	..	5,649	..	..	G O , Nos. 332 and 332-A, dated 28th March 1887.	Transferred to 59-A.
		Nágalápuram	8,345	..	..	8,345	..	..	..	
		Alamadi	1,263	..	..	1,263	..	..	..	
		Palavakam	2,561	..	..	† 50	2,511	..	..	* Newly selected and included when submitting notification under sec. 4.
		Pulrambakam	541	..	* 36	..	577	..	G.O., No. 813, Revenue, dated 19th August 1887.	† Excluded at settlement.
		Mylapore	..	..	926	..	926	..		‡ Do. do.
		Vembedu	..	..	1,075	..	1,075	..	G.O., Nos. 204 and 204-A, dated 19th March 1888.	§ Do. do.
	Chingleput ..	Vallam	1,329	..	..	‡ 1	1,328	..		‖ Do. do.
		Anjur	1,509	..	..	§ 2	1,507	..		
		Nemali	633	..	..	..	633	..	..	
		Alapakam	497	..	..	‖ 12	485	..	..	
		Tirumani	639	..	..	..	639	..	..	
		Gúdalúr	..	..	2,744	..	2,744	..	G O., No. 164, dated 23rd February 1888.	
		Senkundram	..	..	1,236	..	1,236	..		
		Kolatur	..	..	1,441	..	1,441	..		
		Venkatapuram	..	..	119	..	119	..	G O., No. 222, dated 15th March 1888.	
		Tiruttení	..	..	272	..	272	..		
		Paranur	..	..	378	..	378	..		
		Kattamkolatur	..	..	537	..	537	..		
		Acharapákam	864	..	..	..	864	..	..	
		Latur	1,011	..	..	..	1,011	..	..	
		Nedumaram	198	..	..	..	198	..	..	
		Venmani	238	..	..	..	238	..	..	
		Madaiyambakam	241	..	..	..	241	..	..	
		Sattamai	135	..	..	..	135	..	..	
		Kattugudalur	4,273	..	..	..	4,273	..	..	
		Rajapalaiyam	806	..	..	..	806	..	..	
		Kurumbarai	250	..	..	..	250	..	..	
		Endatur	168	..	..	..	168	..	..	
		Tandalam	1,428	..	..	..	1,428	..	..	
		Sirunallur	503	..	..	..	503	..	..	
		Kannimangalam	142	..	..	..	142	..	..	
		Nariyamputur	326	..	..	..	326	..	..	
		Karukali	600	..	..	..	600	..	..	
		Kadalamangalam	731	..	..	..	731	..	..	
		Vadatavur	1,078	..	..	..	1,078	..	..	
		Vinayaganallur	127	..	..	..	127	..	..	
		Kunamkolatur	106	..	..	..	106	..	..	

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Chingleput—*cont.*	Chingleput—*cont.*	Bapanallur	538	..	..	..	538	..	..	
		Kutrambakam 601	691	..	..	..	691	..	..	
		Puduppur 90								
		Mannur	585	..	..	..	585	..	..	
		Muttukadu	86	..	..	..	86	..	..	
		Total ..	38,091	59·52	8,764	15,322	31,533	49·27		
North Arcot.	Pólúr	Kelur	3,537	..	..	..	3,537	..		
		Alliyamangalam	10,062	..	..	..	10,062	..	No. 339, *Fort St. George Gazette*, dated 4th Oct. 1887.	Demarcated.
		Kapalur	1,267	..	..	..	1,267	..		
	Arcot	Sátúr	1,048	..	..	..	1,048	..		
		Sennaleri	1,675	..	..	..	1,675	..	No. 225, *Fort St. George Gazette*, dated 14th June 1887.	do.
		Enadivadi	1,567	..	..	..	1,567	..		
		Tandalappantangal	1,112	..	..	..	1,112	..		
		Sholavaram	1,232	..	..	..	1,232	..		Demarcated.
		Amur	6,020	..	..	..	6,020	..		Demarcated, surveyed and fenced.
		Kolatur	1,779	..	..	..	1,779	..		Partly do. do. do.
	Wálajápet ..	Minnel	1,378	..	..	..	1,378	..	No. 223, *Fort St. George Gazette*, dated 14th June 1887..	
		Gúdalór	535	..	..	..	535	..		
		Banavaram	1,051	..	..	..	1,051	..		
		Ammanur	203	..	..	..	203	..		
		Anantapuram or Uriyur	540	..	..	..	540	..		
	Wandiwash ..	Venkundram	1,288	..	..	..	1,288	..		Demarcated, surveyed and fenced.
		Ponnur	939	..	..	..	939	..		
		Badur	873	..	..	..	873	..		
		Nombidu	720	..	..	..	720	..	No. 275, *Fort St. George Gazette*, dated 26th July 1887.	
		Kodiyalam	125	..	..	..	125	..		
		Nedungunam	1,797	..	..	..	1,797	..		
		Vishamangalam	1,148	..	..	..	1,148	..		
		Brahmakatari	635	..	..	..	635	..		
		Neoungal	3,645	..	..	..	3,645	..		
	Javadi	Putur	12,800	..	..	..	12,800	..	No. 207, *Fort St. George Gazette*, dated 4th June 1886.	
		Patrakad	19,200	..	..	..	19,200	..		
		Virappanur	64,000	..	..	..	64,000	..	No. 401, *Fort St. George Gazette*, dated 9th Nov. 1886.	Demarcated.
	Chittur ..	Virasettipalle	..	..	7,587	..	7,587	..		
		Chittapara including (Bramasamudram).	1,426	..	3,424	..	4,850	..		
		Basavapalle	..	..	2,027	..	2,027	..	No. 183, *Fort St. George Gazette*, dated 10th May 1887.	
		Mohimandalam	..	..	2,522	..	2,522	..		
		Pachigunta	..	..	1,800	..	1,800	..		
		Irala	6,400	..	9,730	..	16,130	..		Demarcated and surveyed.

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
North Arcot—*cont.*	Chittur—*cont.* ..	Santapet	2,276	..	..	..	2,276	..	No. 183, *Fort St. George Gazette*, dated 10th May 1887.	Demarcated and surveyed.
		Chittur	360	..	..	..	360	..		
		Kinattipalle	1,417	..	..	..	1,417	..		
		Chillapalle	1,296	..	..	..	1,296	..		
		Panamúr	6,400	..	..	..	6,400	..		
	Chandragiri ..	Mamandúr extension	8,000	..	..	..	8,000	..	No. 326, *Fort St. George Gazette*, dated 20th September 1887.	
		Tirupati hill	16,000	..	..	..	16,000	..		
	Gudiyátam ..	Panamadangi	9,600	..	..	..	9,600	..	No. 242, *Fort St. George Gazette*, dated 5th July 1887.	Demarcated.
		Paraduramu extension	2,500	..	..	..	2,500	..		
		Sinnagunta	6,400	..	..	..	6,400	..		
		Naickeneri extension	1,280	..	..	..	1,280	..		
		Martana	9,600	..	..	..	9,600	..		
		Vikramasi	161	..	..	..	161	..	No. 14, *Fort St. George Gazette*, dated 10th January 1888.	Do. and fenced.
	Vellore	Ambúr	25,600	..	..	..	25,600	..	No. 341, *Fort St. George Gazette*, dated 4th Oct. 1887	Demarcated.
		Arasampet	18,000	..	..	..	18,000	..		
	Vellore and Pólúr.	Tellai	15,121	..	..	..	15,121	..	No. 401, *Fort St. George Gazette*, dated 9th November 1886.	Do. and surveyed.
	Pólúr	Malayalam reserve on the slopes of Javadi hill in the Pólúr taluk.	12,800	..	..	..	12,800	..	No. 339, *Fort St. George Gazette*, dated 4th Oct. 1887.	Demarcated.
		The slopes of Javadi hill in the Pólúr taluk including the jungle at their foot.	19,200	..	..	..	19,200	..	Board's Procs., No. 4214, dated 3rd Dec. 1884.	
	Vellore	Javadi hill block	20,400	..	..	..	20,400	..	Board's Procs., No. 939/Forest 183, dated 25th Mar. 1885.	
		Arasampet								
		Naickeneri								
	Chandragiri ..	Balapalle block	72,000	..	..	..	72,000	..	Board's Procs., No. 2329/Forest 436, dated 13th Aug. 1885.	
		Nagapatla								
		Mungilpeatla block								
		Korapatla	2,620	..	..	..	2,620	..		
		Petlakuppam								
		Gundlapalle								
		Panamadangi								
	Wálejápet ..	Vedantangal	64	..	..	..	64	..		
		Balakishnapuram	63	..	..	..	63	..		
		Katupakam	145	..	..	..	145	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Arcot —*cont.*	Wálajápet—*cont.*	Aiyal	16	..	..	..	16	..	Board's Procs., No. 2329 / Forest 436, dated 13th August 1885.	* Declared unreserved lands—*vide* Board's Proceedings, Forest No. 296, dated 23rd May 1887.
		Tenkal	250	..	..	* 250	..	..		
		Banavaram	35	..	..	..	35	..		
		Head Assistant Collector's-office compound.	4	..	..	..	4	..		
		Total ..	399,610	624·39	27,090	250	426,450	666·33		
South Arcot.	No. I, Tiruvannámalai.	Chinnasamudram	6,019	..	..	6,019	..	..	..	Transferred to 59-A.
		Anandavadi	6,000	..	..	..	6,000	..	..	
		Valasamalai	7,000	..	..	..	7,000	..	..	
		Mudinai	4,000	..	..	4,000	..	..	..	Do. do.
		Kavutumalai	6,000	..	..	..	6,000	..	..	
		Tippakádu	6,002	..	..	..	6,002	..	..	
		Perungolatúr Swamimalai	9,000	..	..	9,000	..	..	..	Do. do.
		Tenmalai	20,000	..	..	..	20,000	..	..	
		Pelamaratúr or Gerugamandiyar ..	8,000	..	..	..	8,000	..	..	
		Nallapattu	7,000	..	..	..	7,000	..	..	
		Siruvadi	3,335	..	..	3,335	..	..	..	Do. do.
		Muttakadu	3,095	..	..	3,095	..	..	..	
		Kárai	1,346	..	..	1,346	..	..	..	
		Padipallam	3,735	..	13	..	3,748	..	..	
		Pakamalai	9,032	..	..	..	9,032	..	..	
		Agaram	601	..	..	..	601	..	..	
		Merkánam	81	..	..	..	81	..	..	
		Kurumbaram, 1st bit	300	..	..	..	300	..	..	
		Do. 2nd bit	150	..	..	150	..	..	..	Do. do.
	No. II, Tindivanam.	Kumalampet	1,222	..	..	..	1,222	..	..	
		Kilsevúr	1,208	..	..	1,208	..	..	..	Do. do.
		Panchalam	1,200	..	..	..	1,200	..	..	
		Bomnatur	300	..	2	..	302	..	..	
		Peradikuppam	1,402	..	..	..	1,402	..	..	
		Akkúr	1,200	..	..	..	1,200	..	..	
		Naduvandúr	2,808	..	..	..	2,808	..	..	
		Sáram	251	..	..	251	..	..	..	Do. do.
		Sálavadi	70	..	..	70	..	..	..	
		Jaggampet	300	..	..	..	300	..	..	
		Attikuppam	150	..	..	150	..	..	..	
		Akshikádu	450	..	..	450	..	..	..	Do. do.
	No. III, Villupuram.	Gangavaram	8,740	..	..	8,740	..	..	..	

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot—*cont.*	No. III, Villupuram—*cont.*	Nabob's tope	..	..	40	..	40	..	..	Transferred from 61 tope list.
		Panampattu	..	..	254	..	254	..	..	
		Valudareddi	..	..	130	5	125	..	..	
		Kappiyambuliyúr	..	..	545	38	507	..	..	
		Gangarampálaiyam	..	..	344	2	342	..	..	
		Vakkúr	..	..	200	7	193	..	..	
		Vikravándi	..	..	311	..	311	..	..	
		Mélakondai	..	..	495	..	495	..	..	Transferred from 59-B.
		Satanúr	..	..	238	14	224	..	..	
		Narasinganúr	..	..	377	..	377	..	..	
		Gundalapuliyúr	..	..	871	..	871	..	..	
		Karanai	..	..	200	..	200	..	..	
		Satanór, 2nd bit	..	..	228	..	228	..	..	
		Adanúr	..	..	1,449	2	1,447	..	..	
		Ariyalúr	..	..	350	..	350	..	..	Do. from 59-D.
		Turinjikádu	..	..	700	..	700	..	..	Do. from 59-B.
		Pulanjimalai	..	..	450	12	438	..	..	Do. from 59-D.
		Tandavasamudram	..	..	2,000	..	2,000	..	..	Do. from 59-B.
		Ramapuram	1,325	..	5	..	1,330	..	..	
		Vellakarai	1,600	..	4	..	1,604	..	..	
		Valudalampattu	900	..	..	..	900	..	..	
		Sammattikuppam	350	..	..	..	350	..	..	
		Selambanádampet	650	..	..	..	650	..	..	
		Vadakuttu, 3rd bit, or Maringur forest	400	..	..	..	400	..	..	
		Vadakuttu, 2nd bit, or Vegakottai forest	600	..	..	..	600	..	..	
	No. IV, Cuddalore.	Vadakuttu proper, 1st bit	2,400	..	..	1	2,399	..	..	
		Veludiyampet	1,700	..	..	1	1,699	..	..	
		Peramatur	1,700	..	..	..	1,700	..	..	
		Kangiruppu, 1st bit	2,000	..	..	..	2,000	..	..	
		Kangiruppu, 2nd bit	1,240	..	..	..	1,240	..	..	
		Velanguppam	1,000	..	..	..	1,000	..	..	
		Talangoda	200	..	1	..	201	..	..	
		Fort Saint David	45	..	..	..	45	..	..	
		Shanankuppam	195	..	..	..	195	..	..	
		Donitorai	120	..	6	37	89	..	..	
		Nochikádu	550	..	..	..	550	..	..	
		Periyakuppam	1,600	..	..	1	1,599	..	..	
		Total ..	138,572	216·52	9,213	37,934	109,851	171·64		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Salem ..	Námakal	Puliyan shola	5,530	..	..	5,530	..	..	No. 316, *Fort St. George Gazette*, dated 13th Sept. 1887.	
	Atúr	Varagur	2,675	..	..	2,675	..	..	No. 360, *Fort St. George Gazette*, dated 25th Oct. 1887.	Transferred to 59-A.
		Nayakenkombai	2,880	..	..	2,880	..	..	No. 169, *Fort St. George Gazette*, dated 26th Apl. 1887.	
		Pattimedu	3,046	..	..	..	3,046	..		
		Nagalur	6,138	..	..	..	6,138	..		
		Tumbal	3,680	..	..	..	3,680	..		
		Pillapadi	4,992	..	..	..	4,992	..		
		Mallapuram ghât	2,285	..	..	..	2,285	..		
		Nartenchedu	2,400	..	..	2,400	..	..	No. 244, *Fort St. George Gazette*, dated 5th July 1887.	
		Vaniyar	4,512	..	..	4,512	..	..	No. 279, *Fort St. George Gazette*, dated 26th July 1887.	Do. do.
		Manjavadi ghât	8,461	..	..	8,461	..	..	No. 251, *Fort St. George Gazette*, dated 5th July 1887.	
		Mallapuram ghât extension ..	640	..	..	..	640	..		
		Ajjampatti	1,920	..	..	1,920	..	..	No. 278, *Fort St. George Gazette*, dated 26th July 1887.	
		Kanavaipudur	3,200	..	..	3,200	..	..	No. 358, *Fort St. George Gazette*, dated 25th Oct. 1887.	
		Lokur	5,312	..	..	5,312	..	..	Do. do.	
		Kanjeri (new)	4,032	..	..	4,032	..	..	No. 192, *Fort St. George Gazette*, dated 17th May 1887.	Do. do.
	Salem	Pannikaradu (new)	4,832	..	..	4,832	..	..	No. 358, *Fort St. George Gazette*, dated 25th Oct. 1887.	
		Mallapuram	589	..	..	589	..	..	Do. do.	
		Kurumbapatti	10,000	..	..	..	10,000	..		
		Vanavasi	..	..	9,000	..	9,000	..		
		Ramaswamymalai	..	..	3,000	..	3,000	..		
		Gundakal	..	..	4,000	..	4,000	..		
		Manukonda	..	..	5,500	..	5,500	..		
		Puliyankad	..	..	1,000	..	1,000	..		
		Arasankad	..	..	2,500	..	2,500	..		
		Kaputu	..	..	3,500	..	3,500	..	No. 267, *Fort St. George Gazette*, dated 19th July 1887.	
		Madikotai	..	..	3,500	..	3,500	..		
		Pungamadevi	..	..	2,500	..	2,500	..		
		Godumalai	..	..	7,000	..	7,000	..		
		Jallutu	..	..	12,000	..	12,000	..		
		Pudupatti	..	..	7,500	..	7,500	..		
		Kanjamalai	..	..	4,500	..	4,500	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres	Equivalent in square miles.		
Salem—*cont.*	Salem—*cont.*	Nagaramalai	..	..	1,280	..	1,280	..	No. 268 *Fort St. George Gazette*, dated 19th July 1887.	
		Yercaud lake	..	..	22	..	22	..		
		Mary land	..	..	400	..	400	..		
		Kudimadavu	4,307	..	..	..	4,307	..	No. 3812, dated 17th Nov. 1887, in *Salem District Gazette*, Forest Sheet, dated 1st December 1887, No. 12.	
		Yelatur	..	..	2,000	..	2,000	..		
		Vellampatti	..	..	3,500	..	3,500	..		
		Kurichi	..	..	2,300	..	2,300	..		
		Mallur	..	..	5,000	..	5,000	..		
		Chittilingi	6,880	..	..	6,880	..	..	No. 306, *Fort St. George Gazette* 23rd August 1887.	Transferred to 59-A.
	Uttankarai	Ammapalaiyam	9,216	..	..	..	9,216	..		
		Singarapet	2,624	..	..	2,624	..	..	No. 257, *Fort St. George Gazette*, dated 12th July 1887.	Do.
		Nochikóttai	7,917	..	..	..	7,917	..		
		Kalnad	4,320	..	..	..	4,320	..		
		Karungal	4,320	..	..	..	4,320	..		
		Uttankarai (new)	3,200	..	..	..	3,200	..		
		Wonnagiri	2,944	..	..	..	2,944	..	....	Uttankarai block of 469 acres is specially protected.
		Kallávi	4,160	..	..	..	4,160	..		
		Payapatti	3,488	..	..	..	3,488	..		
		Morappúr	4,000	..	..	..	4,000	..	....	Harúr block of 1,176 acres is specially protected.
		Harúr (new)	1,901	..	..	..	1,901	..		
		Tirtamalai	11,046	..	..	..	11,046	..		
		Vepampatti	8,640	..	..	..	8,640	..		
		Kalladipatti	2,912	..	..	..	2,912	..		
		Tenkaraikotta	2,368	..	..	..	2,368	..		
		Kowramalai	8,512	..	..	..	8,512	..		
	Tirupatúr and Uttankarai.	Singarapet extension	7,398	..	..	7,398	..	..	No. 211, *Fort St. George Gazette*, dated 31st May 1887.	Transferred to 59 A.
	Hosúr	Govindapuram	3,104	..	..	..	3,104	..		
		Aiyúr	5,952	..	..	5,952	..	..	No. 120, *Fort St. George Gazette*, dated 8th March 1887.	Do.
		Marandahalli	5,824	..	..	5,824	..	..	No. 115, *Fort St. George Gazette*, dated 2nd Mar. 1887	
		Gulhatti (new)	7,942	..	..	7,942	..	..	No. 318, *Fort St. George Gazette*, dated 13th Sept. 1887.	
		Manchi (new)	5,632	..	..	5,632	..	..	No. 152, *Fort St George Gazette*, dated 29th Mar. 1887.	
		Javalagiri	6,016	..	..	6,016	..	..	No. 305, *Fort St. George Gazette*, dated 23rd Aug. 1887.	
		Talli	6,368	..	..	6,368	..	..	No. 255, *Fort St George Gazette*, dated 12th July 1887.	

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Salem—*cont.*	Hosúr—*cont.*	Naganúr	3,200	..	..	..	3,200	..		
		Denkanikóta	2,816	..	..	2,816	..	..	No. 335, *Fort St. George Gazette*, dated 27th Sept. 1887.	Transferred to 59-A.
		Toluvabetta	6,918	..	..	6,918	..	..	No. 204, *Fort St. George Gazette*, dated 25th May 1887.	
		Anchetti	8,832	..	..	8,832	..	..	No. 182, *Fort St. George Gazette*, dated 10th May 1887.	
		Natrapalaiyam	10,880	..	..	10,880	..	..	No. 212, *Fort St. George Gazette*, dated 31st May 1887.	
		Biligundla	14,272	..	..	14,272	..	..	No. 372, *Fort St. George Gazette*, dated 15th Nov. 1887.	
		Kestúr	11,616	..	..	11,616	..	..	....	
		Bilikal	11,136	..	..	11,136	..	..		Do. do.
		Malahalli	8,928	..	..	8,928	..	..		
		Taggatti	10,432	..	..	10,432	..	..	....	
		Hulibunda	7,360	..	..	..	7,360	..		
		Pani	5,856	..	..	..	5,856	..		
		Kundukota	4,768	..	..	..	4,768	..		
		Sivanahalli	4,992	..	..	..	4,992	..		
	Hosúr and Dharmapuri.	Woddapatti	17,152	..	..	17,152	..	..	....	Do. do.
	Dharmapuri ..	Pennagaram	10,304	..	..	10,304	..	..	No. 307, *Fort St. George Gazette*, dated 23rd Aug. 1887.	Do. do.
	Dharmapuri and Hosúr	Morappúr	17,840	..	..	..	17,840	..		
		Gutirayan	15,776	..	..	15,776	..	..	No. 340, *Fort St. George Gazette*, dated 4th Oct. 1887.	Do. do.
	Krishnagiri ..	Maharajagadai	10,304	..	..	..	10,304	..		
		Neiralkotta	7,040	..	..	..	7,040	..		
		Bargúr (new)	1,920	..	..	1,920	..	..	No. 206, *Fort St. George Gazette*, dated 25th May 1887.	
		Togarapalle	901	..	..	901	..	..	No. 359, *Fort St. George Gazette*, dated 25th May 1887.	
	Krishnagiri and Tirpatúr ..	Kotúr	3,840	..	..	3,840	..	..	No. 170, *Fort St. George Gazette*, dated 26th Apl. 1887.	Do. do.
		Alangayam	11,520	..	..	11,520	..	..	No. 208, *Fort St. George Gazette*, dated 31st May 1887.	
		Vellakuttai	..	..	1,152	..	1,152	..	No. 319, *Fort St. George Gazette*, dated 13th Sept. 1887.	
	Tirupatúr ..	Kotanur	7,257	..	..	..	7,257	..		
		Garagamandi	1,280	..	..	..	1,280	..		
		Madagatur	3,200	..	..	..	3,200	..		
		Andiyappanur	4,704	..	..	..	4,704	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Salem—*cont.*	Tiruchengód ..	Pakkanad	7,000	..	..	* 2,500	4,500	..		* Since notified as reserve forest cut out during demarcation.
		Suriyamalai	7,500	..	..	* 2,500	5,000	..		
	Tirupatúr and Krishnagiri.	Nandibanda	..	..	2,500	..	2,500	..	No. 246, *Fort St. George Gazette*, dated 5th July 1887.	
		Total ..	457,659	715·09	83,654	253,222	288,091	450·14		
Trichinopoly.	Trichinopoly ..	Tuvagudi	1,438	..	..	1,438	..	..	No. 248, *Fort St. George Gazette*, dated 5th July 1887.	Transferred to 59-A.
		Ettarai	483	..	..	..	483	..		
		Adavatúr, No. I	370	..	..	..	370	..		
		Do. „ II	331	..	..	..	331	..		
		Valúr	382	..	..	..	382	..		
		Kotapatti	211	..	..	..	211	..		
		Natarajapuram	109	..	..	..	109	..		
		Alandúr	149	..	..	..	149	..		
		Adavatúr	144	..	..	..	144	..	....	Tank beds. Transferred from No. II range.
		Punganúr	281	..	..	..	281	..		
		Viramalai hills	2,000	..	..	2,000	..	..	....	Transferred to 59-A.
		Poiyapatti hill	639	..	..	639	..	..		
		Shemmalai, No. I	400	..	..	400	..	..	....	65 acres transferred to 59-A and the rest found deficient in survey.
		Pakkirikaradu	300	..	..	300	..	..		
	Kulitalai ..	Puttanatam range	500	..	..	500	..	..	No. 248, *Fort St. George Gazette*, dated 5th July 1887.	Transferred to 59-A.
		Surpam range	700	..	..	700	..	..		
		Shemmalai, No. II	500	..	(a)924	..	1,424	..	....	(a) By survey.
		Maradúr	180	..	..	..	180	..		
		Maiyanúr	50	..	..	..	50	..		
		Pudúr	141	..	(a) 2	..	143	..		
		Sekkanam	119	..	..	..	119	..		
		Mahadanapuram	191	..	..	..	191	..		
		Pillapalaiyam	11	..	..	..	11	..		
		Vengampatti	102	..	..	..	102	..		
		Punjantangi hill valley	286	..	..	(b) 24	262	..	....	(b) By Settlement-officer.
		Tani and Sengamakaradu ..	800	..	..	(a) 100	700	..		
		Mudalaimalai	500	..	..	(c) 200	300	..	....	(c) By computation from village plan.
		Karúppúr Reddipatti hill	2,000	..	(c) 2,254	..	4,254	..		
	Musiri ..	Omandúr	320	..	..	..	320	..		
		Tolayanatam and Kotrapatti ..	333	..	..	..	333	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Trichinopoly—*cont.*	Musiri—*cont.*	Tirutalaiyúr	125	..	..	..	125	..		
		Yedumalai	959	..	..	..	959	..		
		Vellakalpatti	1,224	..	..	..	1,224	..		
		Pulivalam	522	..	..	..	522	..		
		Mavalipatti	1,010	..	..	..	1,010	..		
		Visálatchyammal Samudram	138	..	..	..	138	..		
		Kalisammankovil tittu	1,500	..	..	..	1,500	..		
		Karuppakadu tittu	2,000	..	..	..	2,000	..		
		Kanapadi Kannimar solai	2,560	..	..	..	2,560	..		
		Silaiyúr	1,600	..	..	..	1,600	..		
		Valaiyúr	3,480	..	..	..	3,480	..		
		Munmalai	3,000	..	..	..	3,000	..		
		Kanjúrmalai and Uduvampatti-malai								
		Kanapadi (Temparanád)	12,000	..	..	..	12,000	..		
		Kanapadi (Vunnád)	10,000	..	..	..	10,000	..		
		Palamalai	15,000	..	..	..	15,000	..		
		Kannam	194	..	..	..	194	..		
	Perambalúr	Kotavasal	167	..	..	..	167	..		
		Koraipadai	221	..	..	..	221	..		
		Sengatúr	10,000	..	..	..	10,000	..		
		Valaiyúr	3,000	..	..	..	3,000	..		
		Semmalai	5,000	..	..	..	5,000	..		
		Puliyúr	10,000	..	..	..	10,000	..		
		Udumbiyam	..	..	500	..	500	..	Bd.'s Procs, Forest No. 178, dated 24th March 1887.	
		Periyavenmani	..	..	138	..	138	..		
		Tondapadi	..	..	276	..	276	..		
		Anukúr	..	..	487	..	487	..		
		Malvoy	..	..	264	..	264	..		
		Nossiyam	..	..	152	..	152	..		
		Padu Vellakudi	..	..	113	..	113	..		
		Kallakudi	..	..	123	..	123	..		
		Attiyúr	..	..	98	..	98	..		
		Yeppantottai	..	..	213	..	213	..		
		Pasumbalúr	..	..	148	..	148	..		
		Terkukarai								
		Pasumbalúr	..	..	240	..	240	..		
		Vadakarai								
		Nunne	..	..	175	..	175	..		
		Kolatúr	..	..	116	..	116	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Trichinopoly—*cont.*	Perambalúr—*cont.*	Orgalur	..	..	190	..	190	..	Board's Proceedings, Forest No. 178, dated 24th Mar. 1887.	
		Sirukudal	..	..	166	..	166	..		
		Saturpakam	..	..	352	..	352	..		
		Kelapuliyur	..	..	228	..	228	..		
		Neikuppai, No. I	..	..	154	..	154	..		
		Do. „ II	..	..	90	..	90	..		
		Yesanai	..	..	113	..	113	..		
		Peramattur	..	..	658	..	658	..		
		Mavalingai	..	..	260	..	260	..		
		Pulambadi, No. I	..	..	222	..	222	..		
		Do. „ II	..	..	645	..	645	..		
		Do. „ III	..	..	133	..	133	..		
		Viswakudi	..	..	150	..	150	..		
		Mattavarai	..	..	283	..	283	..		
		Araiyúr, No. I	..	..	290	..	290	..		
		Do. „ II	..	..	140	..	140	..		
		Ladapuram	..	..	103	..	103	..		
		Sittali	..	..	404	..	404	..		
		Suniya Vadakarai	..	..	268	..	268	..		
		Nattapur	..	..	175	..	175	..		
		Makurumbalur	..	..	269	..	269	..		
		Satanavadi	..	..	214	..	214	..		
		Vengalam	..	..	360	..	360	..		
		Kalpadai	..	..	300	..	300	..		
		Venparur	..	..	1,024	..	1,024	..		
		Paravai	..	..	150	..	150	..		
		Nergunam	..	..	1,253	..	1,253	..		
		Tevaiyur	..	..	253	..	253	..		
		Metupálaiyam	..	..	539	..	539	..		
		Elambalur	..	..	214	..	214	..		
		Maravattur	..	..	261	..	261	..		
		Kanakasittur	..	..	310	..	310	..		
		Periyur	..	..	856	..	856	..		
		Vannarapundi	..	..	214	..	214	..		
		Tiruvalandurai	..	..	197	..	197	..		
		Bramhadesam	..	..	273	..	273	..		
		Kurumbalur	..	..	366	..	366	..		
		Nambakurchi, No. I	..	..	328	..	328	..		
		Do. „ II	..	..	165	..	165	..		
		Kilarasur	..	..	207	..	207	..		
		Kilakarai	..	..	119	..	119	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Trichinopoly—*cont.*	Perambalúr-*cont.*	Yeraiyur and Naduvasal	..	..	562	..	562	..	Board's Proceedings, Forest No. 178, dated 24th March 1887.	
		Naduvasal	..	..	176	..	176	..		
		Sirumatur	..	..	499	..	499	..		
	Udaiyárpálaiyam	Jayankondacholapuram, No. I ..	80	..	..	..	80	..		
		Do. ,, II ..	250	..	..	..	250	..		
		Vanavallur	250	..	..	..	250	..		
		Malanganku disempu	100	..	..	..	100	..		
		Kodukur	150	..	..	..	150	..		
		Kanjuli	800	..	..	..	800	..		
		Aíyur	1,320	..	..	..	1,320	..		
		Tirukanam	700	..	..	..	700	..		
		Pasikulam	100	..	..	..	100	..		
		Adanakurchi	250	..	..	..	250	..		
		Sittadaiar	50	..	..	..	50	..		
		Kulamur	200	..	..	..	200	..		
		Periyakurchi	150	..	..	..	150	..		
		Sattambadi	800	..	..	..	800	..		
		Alvoy	300	..	..	..	300	..		
		Ambapur	200	..	..	..	200	..		
		Ulliyagudi	200	..	..	..	200	..		
		Sundreswarapuram	150	..	..	..	150	..		
		Periyapalaiyam	951	..	..	..	951	..		
		Vettiyarvettu	460	..	..	..	460	..		
		Kovilur	640	..	..	..	640	..		
		Mudukulam	1,170	..	..	..	1,170	..		
		Velangudi	890	..	..	..	890	..		
		Total ..	107,831	168·49	20,356	6,301	121,886	190·45		
Tanjore ..	Northern ..	Vettangudi	..	..	1,900	..	1,900	..	Notified under section 4 of the Madras Forest Act—*vide* G.O., dated 8th July 1887, No. 657.	Transferred from 59-C.
		Valadalaigudi (Northern casuarina).	..	..	350	..	350	..		
		Do. (Southern do.) ..	..	..	250	..	250	..		
		Naduvasal	..	..	42	..	42	..		
	Southern ..	Kodiyakadu (Point Calimere) ..	4,355	..	..	..	4,355	..	Notified under section 4, *vide* G.O., dated 22nd January 1887, No. 59.	Of this, 421 acres were transferred from 59-B.
		Nadur, No. I	..	..	1,000	..	1,000	..	Notified under section 4, *vide* G.O., dated 24th June 1887, No. 608.	
		Do. ,, II	..	..	200	..	200	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
	Southern—*cont.*	Tachenkurchi	..	..	320	..	320	..	Notified under section 4, *vide* G.O., dated 24th June 1887, No. 608.	Of this, 161 acres were transferred from 59-B
		Kollangarai	..	..	458	..	458	..		Of this, 109 acres were transferred from 59-B.
		Viralipatti Northern block ..	..	..	145	..	145	..		
		Do. Southern ,, ..	..	..	234	..	234	..		
		Kallupatti	..	..	85	..	85	..		
		Putur, No. I	..	..	191	..	191	..		
		Do. ,, II	..	..	119	..	119	..		
		Manakádu	..	..	120	..	120	..		
		Talnáyer	..	..	2,000	..	2,000	..		Transferred from 59-D.
		Tillaivilagam	..	..	320	..	320	..		Of this, 1,200 acres were transferred from 59-D.
		Edangankotai	..	..	200	..	200	..		
		Total ..	4,355	6·80	7,934	..	12,289	19·20		
North Coimbatore.	Erode taluk ..	Reserved lands, Erode	27,927	..	..	..	27,927	..	Board's Proceedings, $\frac{3513}{F.\ 323}$, dated 10th October 1884.	
	Karúr ,, ..	Do. do. Karúr	3,627	..	..	..	3,627	..	Board's Proceedings, $\frac{2203}{F.\ 420}$, dated 28th July 1885.	
	Satyamangalam ..	Block Nos. III and IV	224,000	..	* 76,800	..	300,800	..		* The result of Mr Hayne's rectification of Mr. Peet's incorrect figures given in previous year.
	Kollegál	Block Nos. I, II and III	249,600	..	* 348,160	..	597,760	..		
	Bhavání	Block No. I	140,800	..	* 102,400	..	243,200	..		
		Total ..	645,954	1009·30	527,360	..	1,173,314	1833 30		
South Coimbatore.	Sholakarai, Coimbatore taluk.	Small Sholakarai reserve	81	..	..	..	81	..		
	Palladam taluk.	Alatúr	237	..	..	..	237	..		
		Ammapalaiyam	119	..	..	..	119	..		
		Arasúr	94	..	..	..	94	..		
		Asanellipalaiyam	160	..	..	..	160	..		
		Avanáshi	55	..	..	..	55	..		
		Ichipatti	639	..	..	..	639	..		
		Iduvai	125	..	..	..	125	..		
		Itiverampalaiyam	581	..	..	..	581	..		
		Kadirampalaiyam	188	..	..	..	188	..		
		Káduvettipalaiyam	80	..	..	..	80	..		
		Kalipalaiyam	123	..	..	..	123	..		
		Kandampalaiyam	92	..	..	..	92	..		
		Kaniyampalaiyam	156	..	..	..	156	..		
		Kaniyúr	820	..	..	..	820	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or tranafer.	Remarks.
			Acres.	Equivalent in square miles.	Acres	Acres.	Acres.	Equivalent in square miles.		
South Coimbatore —*cont.*	Palladam taluk—*cont.*	Karadibavi	50	..	..	..	50	..		
		Karaipudúr	92	..	..	..	92	..		
		Karavalur	522	..	..	..	522	..		
		Kurumbapalaiyam	299	..	..	..	299	..		
		Korumatampatti	306	..	..	..	306	..		
		Kodangipalaiyam	121	..	..	..	121	..		
		Kuppandapalaiyam	69	..	..	..	69	..		
		Kuttagam	582	..	..	..	582	..		
		Mangarasuvalaiyapalaiyam ..	271	..	..	..	271	..		
		Moparipalaiyam	163	..	..	..	163	..		
		Naranapuram	556	..	..	..	556	..		
		Narayampalli	51	..	..	..	51	..		
		Nilambúr	113	..	..	..	113	..		
		Papakulam	103	..	..	..	103	..		
		Paruvai	76	..	..	..	76	..		
		Pattampalaiyam	126	..	..	..	126	..		
		Perumanallur	159	..	..	..	159	..		
		Perunkarunaipalaiyam	53	..	..	..	53	..		
		Pudupalaiyam	793	..	..	..	793	..		
		Pulippar	72	..	..	..	72	..		
		Puluvapatti	111	..	..	..	111	..		
		Pumalur	291	..	..	..	291	..		
		Rakkiyapalaiyam	278	..	..	..	278	..		
		Samalapuram	52	..	..	..	52	..		
		Settipalaiyam	159	..	..	..	159	..		
		Senneripalaiyam	75	..	..	..	75	..		
		Sokkanur	132	..	..	..	132	..		
		Sukkampalaiyam	479	..	..	..	479	..		
		Tandagarampalaiyam	83	..	..	..	83	..		
		Tattanur	290	..	..	..	290	..		
		Tekkalur	389	..	..	..	389	..		
		Taranallur	82	..	..	..	82	..		
		Tulukamutur	60	..	..	..	60	..		
		Uppilipalaiyam	99	..	..	..	99	..		
		Vadugapalaiyam	57	..	..	..	57	..		
		Do.	293	..	..	..	293	..		
		Vallipuram	52	..	..	..	52	..		
		Velampalaiyam	81	..	..	..	81	..		
		Do.	75	..	..	..	75	..		
		Virapandi	175	..	..	..	175	..		
		Total ..	11,440	17·87	..	..	11,440	17·87		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura ..	No. I, Periyakulam.	Kombai	6,400	..	..	..	6,400	..		
		Surulipatti	5,760	..	..	5,760	..	..	No. 315, *Fort St. George Gazette*, dated 13th September 1887.	Transferred to 59-A.
		No. I, Vellaikaradu	965	..	..	..	965	..		
		,, II, Sonaikaradu	182	..	..	..	182	..		
		,, III, Mottaikaradu	192	..	..	..	192	..		
		,, IV, Kuttaikaradu	125	..	..	..	125	..		
		,, V, Nagamalaikaradu ..	118	..	..	..	118	..		
		,, VI, Perumalkovilkaradu ..	573	..	..	..	573	..		
		,, VII, Sanniyasikovilkaradu ..	283	..	..	..	283	..		
		Murugamalai F F.R.	3,226	..	..	..	3,226	..		
		Amburuvi	..	..	3,840	..	3,840	..		
		Karugal Dhoni Médu	..	..	2,560	..	2,560	..		Notified under section 4, dated 26th April 1887.
		Adukam	..	..	3,200	..	3,200	..		
		The southern slopes of the Palni hills.	25,600	..	..	..	25,600	..		
		The eastern slopes of the Palni hills.								
		The northern slopes of the Palni hills.	..	..	16,000	..	16,000	..		
		All the lands on the Lower Palni hills lying outside the limits of certain cultivable waste selected and set apart.	32,000	..	..	..	32,000	..		
	No. II, Kodaikánal.	Manjakaraikadu	1,600	..	..	..	1,600	..		
		Vanjankanal								
		Alayadikanal								
		Checkodikanal								
		Kadugatadikadu								
		Koviladikanal								
		Kumalarakadu								
		Talakodikadu								
		Tirukuttikadu								
		Ponvettukanal								
		Periyasolaikadu								
		Polyapattimalai								
		Elamalai								
		Nadumbaraikadu								
		Perumalmalai	12,800	..	..	..	12,800	..		
		Arunkanal	2,560	..	..	..	2,560	..		
		Kallar	9,600	..	..	..	9,600	..		

Area of Reserved Lands; 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Madura—*cont.*	No. II, Kodaikánal—*cont.*	Kadugutadi kádu	1,280	..	..	1,280	..	..	No. 68, *Fort St. George Gazette*, dated 28th Feb. 1888.	Transferred to 59-A.
		Oliyanutu odai	3,200	..	..	3,200	..	..	No. 70, *Fort St. George Gazette*, dated 28th Feb. 1887.	
		Unjal nachi	..	..	157	..	157	..	No. 334, *Fort St. George Gazette*, dated 27th Sept. 1887, Part I, pages 766 and 767 notified under section 4.	
		Kokkuparai	..	..	130	..	130	..		
	No. III, Dindigul and No. IV, Melúr.	Karandamalais	22,400	..	..	..	22,400	..		
		Panjantangi hills	3,200	..	..	..	3,200	..		
		Chembulimalai	..	..	1,600	..	1,600	..	Notified under section 4, No. 47, *Fort St. George Gazette*, dated 14th Feb. 1888, Part I, page 112.	Transferred from 59-D.
		Mottamalai	..	..	1,280	..	1,280	..		
		Perumalai	..	..	2,560	..	2,560	..		
		Pulamalai	..	..	1,920	..	1,920	..		
		Budagudimalai	..	..	1,600	..	1,600	..		
	No. V, Madura.	Waggatumalai F. F. R.	4,200	..	..	..	4,200	..		
		Kachakatti do.	1,694	..	..	..	1,694	..		
		Tiruparamkundram hills ..	960	..	..	..	960	..		
		Elephant rock	640	..	..	..	640	..		
		Ammanamalai	1,600	..	..	..	1,600	..		
		Muttupattimalai								
		Vandiyúr Karadu								
		Naledévampatti Karadu	1,920	..	..	..	1,920	..		
		Total..	143,079	223·56	34,847	10,240	167,686	262·00		
Tinnevelly.	Nángunéri ..	Block I (*a*)	25,999	..	..	..	25,999	..	....	Notified under section of the Forest Act in *Fort St. George Gazette*, dated 23rd Feb. 1886, and District Gazette, dated 15th Apr. 1886.
	Ambásamudram.	Do. II (*a*) and (*b*)	61,856	..	..	8,037	53,818	..	Excluded in settlement by Forest Settlement-officer, G.O., No. 70, dated 24th Jan. 1887.	
	Tenkási ..	Do. III (*a*), (*b*) and (*c*)	14,032	..	..	3,389	10,643	..		
	Sankaranainárkoil.	Do. IV (*a*)	30,713	..	..	..	30,713	..		
	Srívilliputur ..	Do. V (*a*)	40,006	..	..	..	40,006	..		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Tinnevelly—*cont.*	Ambásamudram.	Mullimalai	457	..	..	..	457	.	...	Constituted reserved lands by Board's Proceedings, Forest No. 103, dated 2nd March 1886, and notification in District Gazette, dated 15th April 1886. Since notified under section 4 of the Forest Act in *Fort St. George Gazette* of the 28th June 1887
		Kaliyaniamman kovil parai	309	..	..	..	309	.	...	
		Koviladi parai	125	..	..	..	125	.	...	
		Salupparpadai	71	..	..	..	71	..	....	
		Kolardamámalai	1,540	..	..	..	1,540	..	....	
	Tenkáai	Okaninran pádai	85	..	..	..	85	..	...	
		Kavalkuti peramba	375	..	..	..	375	..	....	
		Kottamalai	860	..	..	..	860	..	...	
		Nalankurchi	212	..	..	..	212	..	...	
	Sankaranainárkoil.	Chunnambu peramba	286	..	..	..	286	..	....	
		Seiyamalai and Vedamalai	294	..	..	..	294	..	...	
	Srivilliputur	Kotankulam	630	..	..	..	630	..	...	
		Sappaniperamba	376	..	..	..	376	..	...	
		Pulpattiperamba	51	..	..	..	51	..	...	
		Valaikulamperamba	1,120	..	..	..	1,120	..	...	
		Onipattimalai	530	..	..	..	530	..	...	
	Tinnevelly	Martandamparai	135	..	..	..	135	..	...	
		Talaiyutu	891	..	..	..	891	..	...	
		Sivalaperiperamba	263	..	..	..	263	..	...	
	Tenkarai	Kottamadakt	1,279	..	..	..	1,279	.	...	
		Kudiraimalai	13,418	..	..	..	13,418	.	...	
		Punnamparai	117	..	..	..	117	.	....	
		Kongrayakurchi	77	..	..	..	77	.	...	
		Kalyarkádu	158	..	..	..	158	.	....	
		Vellanad hills	4,667	..	..	..	4,667	.	....	
	Otapidáram	Melavittam	674	..	34	..	708	.	....	
		Virusampatti	294	..	..	..	294	.	....	
	Nángunéri	Teak tract	..	..	285	..	285	.	....	
		Chinnakadu defined in Mr. Baber's decision on the claims of inamdar	..	..	2,560	..	2,560			
	Otapidáram	Vaipar	813	..	..	..	813	.	...	Notified as reserved land under rule 2 of rules under section 26, *vide* Board's Proceedings, Forest No. 103, dated 2nd March 1886, and notification in District Gazette of 15th April 1886.
		Total	202,715	316·74	2,879	11,426	194,168	303·39		
North Malabar	Wynaad	Palpattur	861	..	..	..	861	..		
		Vengur	2,013	..	..	..	2,013	..		
		Chedlet	572	..	..	..	572	..		
		Karpur	1,221	..	..	..	1,221	..		
		Kalur	3,757	..	..	..	3,757	..		
		Excluded portions of Trans-Beni.	4,300	..	..	..	4,300	..		

Area of Reserved Lands, 1887-88—*cont*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres	Acres.	Acres.	Equivalent in square miles.		
North Malabar—*cont*	Wynaad—*cont.*	Kudrakot	21,502	..	..	..	21,502	..		
		Padri	30,468	..	..	..	30,468	..		
		Cardamom forest	13,683	..	..	..	13,683	..		
		Kanot	25,600	..	..	..	25,600	..		
		Chapparam	112	..	..	..	112	..		
		Panniyatta	150	..	..	..	150	..		
		Adavankunnu	39	..	..	..	39	..		
		Total	104,278	162·93	..	..	104,278	162·93		
South Malabar.	Nilambúr	Nilambúr block	..	..	5,036	..	5,036	..	Notified under section 4 of the Act, Board's Proc., Forest No. 86, dated 21st February 1888.	Of this, 11,232 acres have been transferred from 59-B and the balance 697 acres, from plantation areas not previously included in form No. 59.
		Pokote	..	..	761	..	761	..		
		Panangod	..	..	859	..	859	..		
		Valluvasheri	..	..	914	..	914	..		
		Kanakut	..	..	669	..	669	..		
		Erambadam	..	..	581	..	581	..		
		Ambalakandi	..	..	1	..	1	..		
		Arimbrakutamala	..	..	322	..	322	..		
		Mangalasheriperamba	..	..	11	..	11	..		
		Putalata and Chitarikal peramba	..	..	8	..	8	..		
		Muriyat	..	..	1,765	..	1,765	..		
		Kariyen	..	..	1,002	..	1,002	..		
		The Silent valley	..	..	17,280	..	17,280	..	Constituted reserved lands under rules under section 26 of the Forest Act, *vide* Board's Proceedings, No. 28 of 21st January 1888, and District Gazette Notification, dated 1st March 1888. To take effect from 15th March 1888.	The area is approximate and the forest tract was transferred with the Pálghat range as per Conservator of Forest's suggestion contained in G O., No. 128, Forest, of 20th November 1886, as well as the notification contained in the *Fort St. George Gazette*, dated 8th February 1887.
	Pálghat	Chatámkulamkarai peramba	30	..	..	..	30	..		
		Tamburatta petai *alias* Pilacheripalaiyam	100	..	..	..	100	..		
		Tiruvazhamkunnu *alias* Panakadam	1,000	..	..	..	1,000	..		
		Chenatnair forest	15,203	..	..	15,203	..	..	*Fort St George Gazette*, dated 5th April 1887.	Transferred to 59-A
		Total	16,333	25·52	29,209	15,203	30,339	47·40		

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Canara.	Mangalore ..	No 5, Ullal Casuarina and Honne plantation.	56	..	2	..	58	..	On a more correct survey at the time of settlement.	Draft notification under section 16 has already been submitted for these.
		No. 10, Tannirbhavi	50	..	20	..	70	..	By actual survey	Do. do.
		No. 11, Todar reserve	960	..	..	320	640	..		Inquiry completed.
		No. 12, Hosabetta reserve	1,600	..	..	1,120	480	..	....	do. do.
		No. 13, Mujimalai reserve	3,200	..	..	..	(a) 3,200	..	....	
		Tenkahola	1920	..	148	..	2,068	..	By actual survey.	Draft notifications under section 16 have been already submitted for these.
		Chinkramali	2,560	..	..	..	(a) 2,560	..	....	
		Manajekadu	1,280	..	..	860	420	..	By actual survey.	
	Udipi	Durgamalai	1,920	..	..	147	1,773	..		The area stated in submitting notification under section 4 was a mere estimate. The present area was calculated after survey.
		Andar reserve	..	..	18,193	..	18,193	..	G.O., Forest No. 97, dated 8th July 1887, communicated in Boards Proceedings, Forest No. 44, dated 4th August 1887.	
		The Siradi Sisla reserve	19,200	..	..	19,200	..	..		Transferred to 59-A.
		Dharmastala Mundaji	9,600	..	..	..	(a) 9,600	..		Submission of draft notification under section 16 is awaiting the disposal of 7 appeals in High Court.
	Uppinangadi ..	Charmadikanapadi	12,800	..	..	..	(a) 12,800	..		Transferred to 59-A.
		Bhagimalé	6,400	..	..	6,400	..	..		
	Kasaragód ..	Parappa	7,680	..	..	..	(a) 7,680	..		
	Kondapur ..	....	..	..	144,000	..	144,000	..	....	Made reserved lands under rules under section 26 prior to 1887-88, but omitted to be excluded in past year's return.
	Udipi	....	..	..	77,386	..	77,386	..	....	
	Mangalore ..	....	..	..	24,480	..	24,480	..	....	
	Uppinangadi ..	....	..	..	288,000	..	288,000	..	....	Made reserved lands under rules under section 26 in 1887-88.
	Kasaragód ..	....	..	..	32,920	..	32,920	..	....	Made reserved lands under rules under section 26 prior to 1887-88.
		Total ..	69,226	108·17	585,149	28,047	626,328	978·64		
		Grand Total ..	2,339,143	3,654·91	1,336,455	377,945	3,297,653	5,152·58		

(a) These are mere-estimates as the blocks have not been surveyed.

Area of Reserved Lands, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
ABSTRACT.										
Chingleput			38,091	59·52	8,764	15,322	31,533	49·27		
North Arcot			399,610	624·39	27,090	250	426,450	666·33		
South do.			138,572	216·52	9,213	37,934	109,851	171 64		
Salem			457,659	715·09	83,654	253,222	288,091	450·14		
Trichinopoly			107,831	168·49	20,356	6,301	121,886	190·45		
Tanjore			4,355	6·80	7,934	..	12,289	19·20		
North Coimbatore			645,954	1,009·30	527,360	..	1,173,314	1,833·30		
South do.			11,440	17·87	..	..	11,440	17·87		
Madura			143,079	223·56	34,847	10,240	167,686	262·00		
Tinnevelly			202,715	316·74	2,879	11,426	194,168	303·39		
North Malabar			104,278	162·93	..	..	104,278	162·93		
South do.			16,333	25·52	29,209	15,203	30,339	47·40		
South Canara			69,226	108·17	585,149	28,047	626,328	978·64		
Total			2,339,143	3,654·91	1,336,455	377,945	3,297,653	5,152·58		

Annual Form No 59 E.

Forest Department, Madras, Southern Circle.

Area of other Forests, 1887-88.

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Chingleput ..	Chingleput	Kavanur	..	..	568	..	568	..	These areas were selected for reservation during the year but not yet notified under section 4.	
		Siruvanjur	..	..	465	..	465	..		
		Orattur	..	..	312	..	312	..		
		Vadambakam	..	..	694	..	694	..		
		Vadakupattu	..	..	699	..	699	..		
		Nallur	..	..	937	..	937	..		
		Maganyam	..	..	942	..	942	..		
		Kulvay	..	..	139	..	139	..		
		Kolatur	..	..	1,899	..	1,899	..		
		Kagar	..	..	643	..	643	..		
		Taiyur	..	..	1,084	..	1,084	..		
		Mambakam	..	..	766	..	766	..		
		Sonalur	..	..	1,190	..	1,190	..		
		Total ..	..	..	10,338	..	10,338	16·15		
North Arcot ..	....	....	..	..	..	..	..	..		
South Arcot ..	No. I Tiruvannámalai ..	Tenmalai	16,960	..	..	..	16,960	..		
		Tandrampet	20	..	..	..	20	..		
		Kadambai	280	..	..	..	280	..		
		Kannamadi	25,600	..	..	..	25,600	..		
		Nattampallai	2,560	..	..	..	2,560	..		
		Ravandivadi	12,800	..	..	..	12,800	..		
		Porasapet	15,360	..	..	..	15,360	..		
		Sirupakam	11,520	..	..	..	11,520	..		
		Erayurmalai	5,120	..	..	..	5,120	..		
		Nukambadi Morkulam	32,000	..	..	..	32,000	..		
		Rasimalai	19,200	..	..	..	19,200	..		
		Veppur	25,600	..	..	..	25,600	..		
		Bimarapatti Attipadi	19,200	..	..	..	19,200	..		
		Kaludaikattimalai	7,040	..	..	..	7,040	..		
		Sannamalai	10,880	..	..	..	10,880	..		

Area of other Forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. I Tiruvannámalai—*cont.*	Tachampet including Atipakum.	29,080	..	..	..	29,080	..	....	
		Kolamanjanur	3,200	..	..	..	3,200	..	....	
		Pudupalaiyam	6,400	..	..	..	6,400	..	....	
		Tiruvannámalai timber yard ..	4	..	..	..	4	..	....	
		Javadi slopes from Bandirevu to Madagarai in Salem district.	25,600	..	..	..	25,600	..	....	
		Damaraikadu in North Arcot district.	7,880	..	..	..	7,880	..	....	
		Vailamur Timmippendrug ..	10,240	..	..	..	10,240	..	....	
		Kotenmalai near Padipallam block.	392	..	..	..	392	..	....	
	No. II Tindivanam ..	Vellimodu	2,560	..	..	..	2,560	..	....	
		Minamurmalai	3,840	..	..	..	3,840	..	....	
		Valeti	1,280	..	..	..	1,280	..	....	
		Pattuvoy	1,280	..	..	..	1,280	..	....	
		Kilsevur	1,280	..	..	..	1,280	..	....	
		Nadukuppam to Bramhadesam ..	3,840	..	..	..	3,840	..	....	
		Parikalpet	70	..	..	..	70	..	....	
	No. III Villupuram ..	Odaiyanattam and Kadaiyam ..	6,400	..	..	..	6,400	..	....	
		Pulanjaimalai	450	..	..	450	..	..	....	Transferred to 59-C.
		Arivalur forest	500	..	..	350	150	..	....	
		Pallipudupet	180	..	..	..	180	..	....	
		Panjamadevi	50	..	..	..	50	..	....	
		Puntotam	50	..	..	..	50	..	....	
		Sattipattu	50	..	..	..	50	..	....	
		Periyapuram	50	..	..	..	50	..	....	
	No. IV Cuddalore ..	Selambanadampettai	640	..	..	..	640	..	....	
		Badrakottai	1,281	..	..	..	1,281	..	....	
		Velankuppam	2,560	..	..	..	2,560	..	....	
		Kanjiruppu	600	..	..	..	600	..	....	
		Vengadampettai, 15th milestone.	250	..	..	..	250	..	....	
	No. IV Chidambaram ..	Pinnalur Wálajápet tank block.	1,600	..	..	..	1,600	..	....	
	No. V Tirukoilúr ..	Virinjipuram and Kandachipuram.	2,560	..	..	..	2,560	..	....	
		Kuttadi	640	..	..	..	640	..	....	
		Timmachur to Gadilam river ..	4,920	..	..	..	4,920	..	....	
		Chikkadu	4,920	..	..	..	4,920	..	....	
		Paiyur	50	..	..	..	50	..	....	
		Kolatur	70	..	..	..	70	..	....	
		Mambakam	40	..	..	..	40	..	....	

Area of other Forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
South Arcot —*cont.*	No. V. Tirukoilúr—*cont.*	Sikkampet	50	..	..	..	50	..	....	
		Muttalur	50	..	..	..	50	..	....	
		Kodiyur	50	..	..	..	50	..	....	
	No. VI. Kallakurchi ..	Ponparappi forest	9,600	..	..	..	9,600	..	....	
		Kadambur	3,100	..	..	..	3,100	..	....	
		Lalapet forest including Chittal.	14,500	..	..	..	14,500	..	....	
		Tagarai Kachirajapalaiyam ..	15,000	..	..	..	15,000	..	....	
		Parigam	2,000	..	..	..	2,000	..	....	
		Kanai	3,000	..	..	..	3,000	..	....	
		Poigunnamalai	1,000	..	..	..	1,000	..	....	
		Palava'am	2,000	..	..	..	2,000	..	....	
		Rangappanur	1,000	..	..	..	1,000	..	....	
		Kammapuram	1,400	..	..	..	1,400	..	....	
	No. VII. Vriddháchalam.	Kodanur south of 45th milestone.	1,000	..	..	..	1,000	..	....	
		Wuyakondravi and Kottayam ..	2,000	..	..	..	2,000	..	....	
		Block near 25th milestone ..	150	..	..	..	150	..	....	
		Pudur	1,920	..	..	..	1,920	..	....	
		Kolatur	1,280	..	..	..	1,280	..	....	
		Periyanesalur	1,280	..	..	..	1,280	..	....	
		Total ..	389,327	608·32	..	800	388,527	607·08		
Salem ..	....	....	..	..	..	..	..	..		
Trichinopoly.	....	....	..	..	..	..	..	..		
Tanjore ..		Talaner	1,200	..	..	1,200	..	..	Notified under section 4 of the Act, *vide* G.O., dated 24th June 1887, No. 608.	Transferred to 59-C.
	Southern	Kariyapatnam	188	..	..	..	188	..	....	
		Manakadu	170	..	..	(*a*) 120 + (*b*) 50	..	..	Do.	(*a*) Transferred to 59-C. (*b*) Rectification of error.
		Valligadangu	40	..	..	..	40	..	....	
		Vanduvancheri	150	..	..	..	150	..	....	
		Mudupet	300	..	..	..	200	..	....	
		Kovilpattu	137	..	..	..	137	..	....	

Area of other Forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Tanjore—*cont.*	Southern	Vanavanmahadevi	380	..	..	..	380	..		
		Vallupallam								
		Pushpavanam	500	..	..	..	500	..		
		Periyakudagai	366	..	..	..	366	..		
		Total ..	3,431	5·36	..	1,370	2,061	3·22		
North Coimbatore.	....	....	..	..	..	..	..	..		
South Coimbatore.	....	....	..	..	..	..	..	..		
Madura ..	No. I Periykulam ..	Detached hills and karadus in the Cumbum valley.	787	..	..	..	787	..		
		Government portion of the Agamalais.	9,280	..	..	..	9,280	..		
		Andipatti hills	12,800	..	..	..	12,800	..		
	No. II Kodaikánal ..	Upper Palni plateau	32,000	..	..	..	32,000	..		
	No. III Dindigul ..	Portion of the slopes of the Sirumalais.	640	..	..	..	640	..		
		Detached hills near Aiyalur ...	9,600	..	..	..	9,600	..		
		Detached hills near Kanavoipatti.	3,840	..	..	..	3,840	..		
		Nedumalais	3,840	..	..	..	3,840	..		
	No. IV Melúr	Some of the detached hills near Nattam.	2,560	..	..	2,560	..	..	....	Transferred to 59-C.
	No. V Madura	Perumalai	5,120	..	..	5,120	..	..	....	
		A portion of the Manjamalais ..	4,800	..	..	..	4,800	..		
		Total ..	85,267	133·23	..	7,680	77,587	121·23		
Tinnevelly ..	Tenkarai	Paramankurchi	1,133	..	..	..	1,133	..		
		Arasur	6,831	..	..	..	6,831	..		
		Kottam	2,860	..	..	..	2,860	..		
		Total ..	10,824	16·91	..	..	10,824	16·91		

Area of other Forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
North Malabar.	Wynaad	Manatana	214,400	..	..	..	214,400	..		
		Total ..	214,400	335·00	..	..	214,400	335·00		
South Malabar.	Palghat	Forest land near Dhoni	150	..	..	..	150	..	Purchased in public auction and handed over to the Forest Dept. presumably, *vide* Board's Procs., Forest Mis. No. 19, dated 10th Jan. 1888, as observed in monthly disposal list of Forest Procs. for Jan. 1888. The area is as per the sale notice 616 square miles, but the District Forest-officer's estimation is from 120 to 150 square miles.	
	Nilambúr	The new Amarapalaiyam forests consisting of twenty blocks.	..	..	96,000	..	96,000	..		
		Total ..	150	0·23	96,000	..	96,150	150·23		
South Canara.	....		..	..	..	..	..	..		
		Grand Total ..	703,399	1,099 05	106,338	9,850	799,887	1,249·82		
		ABSTRACT.								
Chingleput ..	....	....	..	..	10,338	..	10,338	16·15	....	
North Arcot ..	....	....	..	..	..	..	..	..	....	
South Arcot ..	....	....	389,327	608·32	..	800	388,527	607·08	....	
Salem ..	....	....	..	..	..	..	..	..	....	
Trichinopoly ..	....	....	..	..	..	..	..	..	....	
Tanjore ..	....	....	3,431	5·36	..	1,370	2,061	3·22	....	
North Coimbatore.	....	....	..	..	..	..	..	..	....	
South Coimbatore.	....	....	..	..	..	..	..	..	....	
Madura ..	....	....	85,267	133·23	..	7,680	77,587	121·23	....	
Tinnevelly ..	....	....	10,824	16·91	..	..	10,824	16·91	....	
North Malabar.	....	....	214,400	335·	..	..	214,400	335·	....	
South Malabar.	....	....	150	·23	96,000	..	96,150	150·23	....	
South Canara.	....	....	..	..	..	..	..	..	....	
		Total ..	703,399	1,099·05	106,338	9,850	799,887	1,249·82		

Annual Form No. 60.

Forest Department, Madras, Southern Circle.

Area of Plantations, 1887-88.

District.	Range.	Name of Plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			Regular Plantations.						
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Chingleput ..	Chingleput ..	Maiyúr, Pilapúr and Mamandúr	263 3	21,118	..	544	263 3	21,662	
		Wálajábád	14·55	1,931	..	214	14·55	2,145	
		Hanumantaputéri	12				12		
		Melamaiyúr	24	4,254	..	106	24	4,360	
		Vembakam	8				8		
		Nazaretpet	71·54	1,715	..	48	71·54	1,763	
		Total ..	396·09	29,018	..	912	396·09	29,930	
North Arcot ..	Chandragiri ..	Gazerlamandiam	250	3,413	..	81	250	3,494	
	Gudiyátam ..	Tiruvallam	435	32,887	..	2,057	435	34,944	
		Virinjipuram	260	21,990	..	1,205	260	23,195	
		Ammerdi	160	5,984	..	778	160	6,762	
	Wálajápet ..	Vanivédu	30	2,613	..	442	30	3,055	
	Arcot	Kilminnel	150	11,638	..	1,108	150	12,746	
	Vellore ..	Ammerdi	25	4,411	..	101	25	4,512	
		Total ..	1,310	82,936	..	5,772	1,310	88,708	
South Arcot ..	No I, Tiruvannámalai.	Chengam	8	1,260	..	7	8	1,267	
	No. II, Tindivanam.	Agaram	106	8,263	..	48	106	8,311	
		Akshikadu	107	2,600	..	568	107	3,168	
	No. IV, Cuddalore.	Talangoda	160	9,982	5	356	165	10,338	
		Fort St. David	37	4,807	1	353	38	5,160	
		Shonankuppam	195	10,001	..	122	195	10,123	
		Donitorai and other salt topes around ..	88	3,073	2·97	144	90·97	3,217	
		Nochikádu	364·46	10,176	..	384	364·46	10,560	
		Periyakuppam	424·52	7,342	20	1,135	444·52	8,477	
		Amount of land-rent paid for plantations within the Municipality of Cuddalore town.	..	840	..	211	..	1,051	
	No. IV, Chidambaram.	Killai plantation	74·50	2,675	..	293	74·50	2,968	
		Coleroon mouth plantation	49·14	1,739	..	116	49·14	1,855	
		Periyapet plantation	95·46	934	20	336	115·46	1,270	

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of Plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
South Arcot ..	= No. V, Tirukoilúr.	Malatar bed plantation	27	30,101	..	..	27	30,101	
		Velúr	..	2,563	..	..	..	2,563	
		Add pay of the manager and his gumasta in charge of Tirukoilúr plantation.	..	916	..	..	..	916	
		Total ..	1,736·05	97,272	48·97	4,703	1,785·05	1,01,345	
Salem ..	....	....	..	..	..	..	..	..	
Trichinopoly ..	Trichinopoly ..	Punganúr	425	586	..	55	425	641	Transferred from No. II Range
	Kulitalai ..	Elamanúr	117·10	12,602	..	291	117·10	12,893	
		Pettuvaitalai	137	368	..	93	137	461	
		Kulitalai	77·18	10,570	..	365	77·18	10,935	
		Manatattai	44·86	4,576	..	326	44·86	4,902	
		Lálápet	213	6,526	* 55 20	590	268·20	7,116	* As per working plan.
		Ambásamudram	319	524	..	51	319	575	
		Mahadanapuram	191	332	..	36	191	368	
		Sittalavoi	160·32	7,839	..	325	160·32	8,164	
		Sekkanam	119	3,060	..	60	119	3,120	
		Kattalai	74·35	8,033	..	242	74·35	8,275	
		Pudúr	141	817	..	57	141	874	
		Maiyanúr	50	208	..	147	50	355	
	Udayárpálaiyam.	Kolamanikkam	242	6,338	..	232	242	6,570	
		Aramanaikurchi	91	2,509	..	15	91	2,524	
		Karaipakam	107	2,796	..	98	107	2,894	
		Tiruvenganúr	185	2,314	..	60	185	2,374	
		Varappakurchi	192	1,901	..	73	192	1,974	
		Sattambadi	105	2,323	..	38	105	2,361	
		Sripurandan	486	3,711	..	64	486	3,775	
		Valakurchi	130	535	..	79	130	614	
		Annagarampet	92	1,819	..	108	92	1,927	
		Total ..	3,698·81	80,287	55·20	3,405	3,754·01	83,692	
Tanjore ..	Nofthern ..	Tranquebar, No. I	52	..	..	..	52	11,451	
		Do. No. II	92	..	..	..	92		
		Vettangudi	453	..	..	983	453		
		Neidavasal	51	..	..	..	51		
		Kodiyampalaiyam	60	..	..	48	60		
	Southern	Kodambadi	26	..	— 26	..	..	..	Abandoned, *vide* G.O., dated 11th May 1885, No. 541.
		Total ..	734	10,420	— 26	1,031	708	11,451	

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of Plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
North Coimbatore.	Kollegál	Bylúr	97	30,806	..	1,369	97	32,175	Sandalwood plantations.
South Coimbatore.	Tunakadavu ..	No. I Plantation	8·5	4,402	..	..	8·5	4,402	These are the plantations in No. I reserve on the Anaimalais.
		,, II do.	8				8		
		,, III do.	3				3		
		Total ..	19·5	4,402	..	..	19·5	4,402	
Madura ..	No. I, Periyakulam	Vannatiparai plantation	4	1,391	..	..	4	1,391	Particulars are given below :—
	No. II, Kodaikánal.	Kodaikánal Eucalyptus plantation	8	3,504	..	20	8	3,566	Rs. A. P.
		Kodaikánal Acacia plantation	5·50		..	42	5·50		Charges for digging 4,639 pits 66 4 4
		Kodaikánal-Parappar plantation	11·50	920	..	106	11·50	1,026	Charges for opening nursery 11 0 0
		Vilamkombai	4·14	976	..	..	4·14	976	Charges for purchasing mud pots and baskets 46 12 0
		Pumbarai	3	512	..	21	3	533	Charges for planting 44 9 2
		Kodaikánal scattered plantation	3	1,039	..	42	3	1,081	Charges for keeping off plants from forest 25 0 0
		Gunden shola plantation	..	..	5	339	5	339	Plantation fencing . 87 2 6
		Total ..	39·14	8,342	5	570	44·14	8,912	Gardener's wages .. 58 0 0
									338 12 0
Tinnevelly ..	....	....	..	..	..	..	..	..	
North Malabar ..	....	Kanot teak plantation	41·50	3,097	..	292	41·50	3,389	
South Malabar ..	Nilambúr ..	Amarapalaiyam reserve	408·77	2,18,685	* 85·00	6,483	408·77	2,25,168	* Second block of planting teak, 1887-88, actual.
		Chatambarai do.	498·10				498·10		
		Nellikutta do.	120 23				120·23		
		Aravillikombai do.	134·86				134·86		
		Aruvakód do.	111·44				111·44		
		Edakód	692·52				692 52		
		Elanjiri	337·76				337·76		
		Ramalúr	21·33				21·33		
		Mulatmunna	71 56				71·56		
		Panangód reserve	505·09				590·09		
		Valuvasheri do.	584·00				584·00		
		Mangalasheri do.	10·74				10·74		
		Ambalakandi do.	1·01				1·01		
		Chittarikal and Puttalat	8·35				8·35		
		Arimbrakuta	21·75				21·75		
		Total ..	3,527 51	2,18,685	85·00	6,483	3,612·51	2,25,168	

Area of of Plantations, 1887-88—*cont.*

District.	Range.	Name of Plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			Acs.	Rs.	Acs.	Rs.	Acs.	Rs.	
South Canara	Mangalore ..	Ullal casuarina and Honne plantations ..	55·50	1,428	+ 1·61 (a)	170	57·11	1,598	(a) Result of a more correct survey. One acre was felled and restocked during the year.
		Tannirbavi casuarina plantations	22·0	1,929	+ 22 (b)	472	44·0	2,401	(b) Increase in the area planted previous to this year found on a more correct survey 12 acres. Area planted in 1887 88 10 ,, 22 ,,
	Kásaragód ..	Parappar teak plantation	109·0	16,597	— 59 (c)	60	50	16,657	(c) Error found on remeasurement.
		Total ..	186·50	19,954	— 35·39	702	151·11	20,656	
		Grand Total of Regular Plantations ..	11,786·13	585,219	132·78	24,609	11,918·91	6,09,828	
					Cultural Operations.				
Direction ..	....	Cost of Persian date palms imported	..	1,141	..	..	..	1,141	
Chingleput ..	....	....	..	..	..	..	..	..	
North Arcot ..	....	....	..	..	..	..	..	..	
South Arcot ..	Cuddalore ..	Ramapuram	70	..	..	..	70	..	
		Forests in Tindivanam and Villupuram ..	593	32	..	..	593	32	
		Forests in Cuddalore, Vriddháchalam and Chidambaram.	663	345	..	..	663	345	
		Add charges incurred for carriage and maintenance, &c., of exotic plants planted in forests, but debited to A-VIII *d*.	..	66	..	327	..	393	
		Total ..	1,326	443	..	327	1,326	770	
Salem	....	....	..	..	..	..	..	..	

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of Plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Trichinopoly ..	Trichinopoly ..	Kaduvoi bank	..	..	..	..	..	..	
		Melúr	M. 6	54	..	..	6	54	
		Peruvalai bank	,, 2	133	..	..	2	133	
		Coleroon left bank trunk road to Alambadi ..	,, 22	4,870	..	653	22	5,523	
	Udayárpálaiyam.	Naddiyur project	,, 4	2,267	..	..	4	2,267	
		Coleroon left bank, Sembiyagudi to Vaippúr ..	,, 21	7,547	..	..	21	7,547	
		Panneri main channel	,, 19	7,094	..	..	19	7,094	
		Do. branch channel	,, 16	2,199	..	..	16	2,199	
		Lower anicut line	,, 10	3,457	..	..	10	3,457	
		Vadavar padugai	..	3	..	..	..	3	
		Total ..	M. 100	27,624	..	653	M. 100	28,277	
Tanjore ..	Northern ..	Kattucheri	15	95	..	48	15	143	
		Kalliyappanullúr	18	90	..	48	18	138	
		Mudikondanullúr	25	88	..	48	25	136	
		Vettangudi	520	242	..	161	520	403	
	Southern ..	Nadúr *	18	4	9	..	27	4	* Included in Nadúr block No. I reserved land and is under notification under section 4 of the Forest Act.
		Ichankottai *	9	9	..	..	9	9	
		Kollangarai	20	..	1	..	21	..	
		Karungulam Mélpadi	5	..	..	..	5	..	
		Marungulam *	20	..	..	..	20	..	
		Avelikudi	..	..	10	..	10	..	
		Nadukavéri Natarajapuram	9	..	..	..	9	..	
		Nannillam	2	..	..	..	2	..	
		Odiyandévi	20	..	..	..	20	..	
		Edangankottai Meliyúr	7	..	..	..	7	..	
		Thirteen topes in Pudukóta taluk	135	..	..	..	135	..	
		Védaranyam (date garden)	21	90	..	58	21	148	
		Total ..	844	618+286 = 904	20	363	864	981+286 = 1,267	
North Coimbatore.	..	....	..	..	..	..	..	..	
South Coimbatore.	..	....	..	..	..	..	..	..	
Madura	..	....	..	..	..	..	..	..	
Tinnevelly ..	Tenkarai sub-range.	Kudiraimalai reserve	768	1,122	310 †—18·07	439	1,059·93	1,561	† Result of actual survey.
		Kotamadakikádu	2·50	35	..	..	2·50	35	
		Total ..	770·50	1,157	291·93	439	1,062·43	1,596	

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of Plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Total.
			Area.	Cost.	Area.	Cost.	Total area.	Total cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
North Malabar..	..	Rubber experiments	..	784	..	..	..	784	
		Cost of cardamom cultivation in Periya range.	32	580	77	196	109	776	
		Total ..	32	1,364	77	196	109	1,560	
South Malabar..	..	....	..	..	..	..	..	..	
South Canara ..	..	Experimental growth of giant bamboos ..	..	28	..	..	..	28	
		Grand Total of Cultural Operations ..	2,972·50 M. 100	32,661	388·93	1,978	3,361·43 M. 100	34,639	
		ABSTRACT.							
		Regular Plantations.							
Chingleput ..	..	....	396·09	29,018	..	912	396·09	29,930	
North Arcot ..	..	....	1,310	82,936	..	5,772	1,310	88,708	
South Arcot ..	..	....	1,736·08	97,272	48·97	4,073	1,785·05	1,01,345	
Trichinopoly ..	..	....	3,698·81	80,287	55·20	3,405	3,754·01	83,692	
Tanjore ..	..	....	734	10,420	— 26	1,031	708	11,451	
North Coimbatore	..	....	97	30,806	..	1,369	97	32,175	
South do. ..	..	....	19·5	4,402	..	..	19·5	4,402	
Madura ..	..	....	39·14	8,342	5	570	44·14	8,912	
North Malabar..	..	....	41·50	3,097	..	292	41·50	3,389	
South do. ..	..	....	3,527·51	2,18,685	85·00	6,483	3,612·51	2,25,168	
South Canara ..	..	....	186·50	19,954	— 35·39	702	151·11	20,656	
		Total ..	11,785·13	5,85,219	132·78	24,609	11,918·91	6,07,828	
		Cultural Operations.							
Direction ..	..	....	..	1,141	..	..	..	1,141	
South Arcot ..	..	....	1,326	443	..	327	1,326	770	
Trichinopoly ..	..	....	M. 100	27,624	..	653	M. 100	28,277	
Tanjore ..	..	....	844	904	20	363	864	1,267	
Tinnevelly ..	..	....	770·50	1,157	291·93	439	1,062·43	1,596	
North Malabar..	..	....	32	1,364	77	196	109	1,560	
South Canara ..	..	....	..	28	..	..	..	28	
		Total ..	2,972·50 M. 100	32,661	388 93	1,978	3,361·43 M. 100	34,639	

Annual Form No. 61.

Forest Department, Madras, Southern Circle.

Annual list of Topes.

District.	Range.	Number.	Name of tope.	Chief trees.	Area.	Cost		Remarks.
						During year.	To end of year.	
					ACS.	RS.	RS.	
Chingleput ..	Chingleput	7	..	Mango, margosa, casuarina, iluppai, cocoanut and Inga dulcis	63	120	7,023	
	Saidápet	1	..	Kodukaipulli and mango	30	121	705	
	Total ..	8	..	Total ..	93	241	7,728	
North Arcot ..	Chittur	13	..	Date, tamarind, mango, cocoanut and palmyra ..	..	258	535	
	Chandragirí	29	..	Do. do. do. do. ..	..	129	144	
	Palmanér	13	..	Mango, iluppai, tamarind, cocoanut and casuarina.	132	383	6,953	
	Gudiyátam	120	..	Palmyra, do. do. do. ..	61	46	15,399	
	Vellore	42	..	Mango, palmyra and tamarind	504	228	1,017	
	Pólúr	12	..	Do. do. do.	..	90	191	
	Arcot	113	..	Mango, tamarind, iluppai and palmyra	..	58	115	
	Wálajáh	37	..	Do. do. do.	46	104	5,580	
	Wandiwash	262	..	Do. do. do.	..	6	6	
	Total ..	641	..	Total ..	743	1,302	29,940	
South Arcot ..	No. I. Tiruvannámalai ..	34	..	Tamarind, iluppai, nagai, vembu, mango and kattu-vagai	118	..	..	
	,, II. Tindivanam ..	7	..	Do. do. do. do. ..	35	..	..	
	,, III. Villupuram ..	14	..	Tamarind, iluppai, kattuvagai, margosa, [mango, sandal and casuarina	77	..	..	
	,, IV. Cuddalore ..	2	..	Tamarind, iluppai, karuvelam, mango and nagai ..	12	..	..	
	,, IV. Chidambaram ..	4	..	Karuvelam, portia, tamarind, palmyra, and iluppai.	17	..	..	
	,, V. Tirukoilur ..	17	..	Tamarind, margosa, iluppai, mango and vagai ..	33	..	..	
	,, VI. Kallakurchi ..	9	..	Tamarind, iluppai, margosa, karuvelam and velvelam	66	..	..	
	,, VII. Vriddháchalam ..	7	..	Tamarind, palmyra, mango, banyan, odiyan and konnai	36	..	..	
	Total ..	94	..	Total ..	394	..	8,712	
Salem	Salem	64	..	Mango, tamarind, margosa, nagai, iluppai, cocoa-nut and vagai	634	28	58,456	
	Atúr	17	..	Cocoanut, tamarind, iluppai and margosa	*188	43	9,357	

	ACS.
* Last year's area	187·10
Added this year	·60
Total ..	187·70

Annual list of Topes —*cont.*

District.	Range.	Number.	Name of tope.	Chief trees.	Area.	Cost. During year.	Cost. To end of year.	Remarks.
					ACS.	RS.	RS.	
Salem—*cont.* ..	Námakal	16	..	Cocoanut, tamarind, iluppai, margosa, vagai and mango	58	100	* 7,164	* Includes Rs. 60 omitted in previous year.
	Tiruchengód	14	..	Mango, cocoanut, tamarind, margosa and iluppai ..	107	96	4,594	
	Utankarai	35	..	Tamarind, mango, nim and palmyra	301 †— 49	111	31,525	† Over added in previous year.
	Tirupatúr	23	..	Mango, tamarind, iluppai, vagai and palmyra ..	222	54	8,708	
	Krishnagiri	21	..	Iluppai, mango, tamarind, margosa, palmyra, karuvelam and nagai	358	48	29,141	
	Dharmapuri	31	..	Tamarind, illuppai, mango and sandalwood ..	492	144	17,167	
	Hosúr	42	..	Casuarina, illuppai, punga, naga mango and sandalwood	750	200	28,899	
	Total ..	263	..	Total ..	3,061	824	1,95,011	
Trichinopoly ..	Trichinopoly	6 + 2‡	..	Mango, illuppai and sissu	32	..	1,311	‡ Transferred from Kulitalai range.
	Kulitalai	6 — 2§	..	Tamarind and sissu	21	..	168	§ Transferred to Trichinopoly range.
	Musiri	2	..	Mango	4	..	..	
	Perambalúr	1	..	Do.	9	..	292	
	Udayárpálaiyam	1	..	Do.	2	..	..	
	Total ..	16	..	Total ..	‖ 68	..	1,771	‖ An area of 7 acres omitted in the previous return is included in this.
Tanjore	Tanjore	16	..	Cocoanut and mango	153	..	..	
North Coimbatore.	Satyamangalam	3	..	Palmyra	21	..	2,328	
	Kollegál	4	..	Karuvelam and tamarind	303	..	576	
	Bhavání	26	..	Mango, palmyra and karuvelam	372	..	1,799	
	Erode	52	..	Palmyra, tamarind, velvelam, margosa, cork, oogal and karuvelam	614	94	13,069	
	Dhárápuram	76	..	Karuvelam, velvelam, tamarind, palmyra, margosa, cocoanut and velam	12,483	11	25	
	Karúr	22	..	Palmyra, cocoanut and tamarind	247	..	10,882	
	Total ..	183	..	Total ..	14,040	105	28,679	
South Coimbatore..	Palladam	6	..	Palmyra, tamarind, karuvelam, velvelam, teak and sandalwood	101	..	5,197	The two topes at Coimbatore, area 12 acres cost, Rs. 679, were handed over to the Land Revenue Department on 1st April 1887.

Annual list of Topes—*cont.*

District.	Range.	Number.	Name of tope.	Chief trees.	Area.	Cost		Remarks.
						During year.	To end of year.	
					ACS.	RS.	RS	
Madura ..	No. I. Periyakulam ..	9	..	Tamarind, iluppai, vembu, karuvelam, vagai, mango, bamboo, naval, sandal and mahogany ..	20	27	5,624	
	,, II. Kodaikánal ..	3	..	Tamarind, iluppai, vagai, velam and mahogany ..	9	2	1,185	
	,, III. Dindigul	8	..	Tamarind, mango, iluppai, karuvelam, vagai, naval, palmyra and velvelam	48	..	3,740	
	,, IV. Melúr	3	..	Vagai, tamarind, margosa, cocoanut	24	201	1,050	
	Total ..	23	..	Total ..	101	* 230	11,599	* Rs. 1,050, being cost of temporary establishment included in last year's total, is now excluded, the amount being debitable to (A) VIII (*f*).
Tinnevelly ..	Tinnevelly	4	..	Mango, tamarind, gooseberry and palmyra ..	35	111	541	† Rs. 100 omitted in previous year's reurn is now included.
	Otapidáram	2	..	Mango, bamboo, iluppai and casuarina	11	..	328	
	Sátúr	2	..	Bamboo, naval, vagai and tamarind	3	..	† 554	
	Sankaranainárkoil	5	..	Mango, iluppai, bamboo and jack	14	..	656	
	Tenkási	8	..	Mango, marudu, vagai, casuarina and tamarind ..	15	..	503	
	Ambásamudram	3	..	Vagai, marudu, margosa, iluppai and tamarind ..	9	..	504	
	Nángunéri	4	..	Mango, iluppai, bamboo, banyan, margosa, vagai and tamarind	19	96	964	
	Total ..	28	..	Total ..	106	207	4,050	
North Malabar ..	Wynaad sub-division ..	1	Experimental garden, Manantoddy.	Eucalyptus, Ceara rubber, cinchona	2½	472	2,271	
				Mahogany, sappan, Ficus elastica, &c.	‡ 17½			‡ Due to extension of tope.
	Total ..	1	..	Total ..	20	472	2,271	
South Malabar ..	Pálghat	§ 2	..	Mango, jack trees and Pongamia glabra	3	..	9	§ Transferred from Malabar (Wynaad and Pálghat).
South Canara ..	....	..	..	....	..	..	..	
	Grand Total ..	1,281	..	Grand Total ..	18,983	3,381	2,29,967	

ABSTRACT.

District.	Range.	Number.	Name of tope.	Chief trees.	Area.	Cost		Remarks.
						During year.	To end of year.	
					ACS.	RS.	RS.	
Chingleput ..	....	8	..	....	93	241	7,728	
North Arcot ..	....	641	..	....	743	1,302	29,940	
South Arcot ..	....	94	..	....	394	..	8,712	
Salem	....	263	..	....	3,061	824	1,95,011	
Trichinopoly ..	....	16	..	....	68	..	1,771	
Tanjore	....	16	..	....	153	..	..	
North Coimbatore.	....	183	..	....	14,040	105	28,679	
South do. ..	....	6	..	....	101	..	5,197	
Madura	....	23	..	....	101	230	11,599	
Tinnevelly ..	....	28	..	....	106	207	4,050	
North Malabar ..	....	1	..	....	20	472	2,271	
South do. ..	....	2	..	....	3	..	9	
South Canara ..	....	..	..	....	..	..	..	
	Total ..	1,281	..	Total ..	18,833	3,381	2,94,967	

Annual Form No. 62.

Forest Department, Madras, Southern Circle.

Area of forest tracts protected from fire during 1887-88.

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Tiruvallúr Range.	Acs.	Rs. A. P.	Acs.	Acs.	Acs.	Rs. A. P.	Rs. A. P.		
Chingleput ..	Kambakam hills	7,350	1,883 0 0	7,350	21	7,329	271 0 0	2,154 0 0	1883-84	
	Nágalápuram hills	..	..	8,345	..	8,345	12 0 0	12 0 0	1887-88	
	Total ..	7,350	1,883 0 0	15,695	21	15,674	283 0 0	2,166 0 0		
	Specially protected.									
	Pólúr Range.									
North Arcot ..	Karnatic ghur	7,069	1,242 0 0	7,069	600	6,469	151 0 0	1,393 0 0	1881	
	Tellai	15,072	1,272 0 0	15,121	20	15,101	207 0 0	1,479 0 0	1881	
	Ambúr fuel	3,805	921 0 0	3,840	..	3,840	187 0 0	1,108 0 0	1879	
	Palamadi	6,320	391 0 0	6,400	..	6,400	64 0 0	455 0 0	1880	
	Chandragiri Range.									
	Napier	8,466	1,037 0 0	8,772	..	8,772	288 0 0	1,325 0 0	1880	
	Mámandúr	1,184	1,173 0 0	1,776	..	1,776	152 0 0	1,325 0 0	1874	
	Chamala	9,600	205 0 0	9,600	..	9,600	60 0 0	265 0 0	1880	
	Panapak	6,400	157 0 0	6,400	..	6,400	57 0 0	214 0 0	1880	
	Pudipatla bail	2,560	158 0 0	2,560	..	2,560	64 0 0	222 0 0	1880	
	Chittur Range.									
	Paradarami	14,922	171 0 0	15,242	60	15,182	59 0 0	230 0 0	1880	
	Airala	6,400	179 0 0	6,400	640	5,760	15 0 0	194 0 0	1880	
	Chittur	360	155 0 0	360	..	360	24 0 0	179 0 0	1882	
	Santapet	2,277	41 0 0	2,276	..	2,276	..	41 0 0	1882	
	Bommasamudram	1,426	79 0 0	1,426	640	786	52 0 0	131 0 0	1884	
	Chilapalli	1,296	41 0 0	1,296	..	1,296	27 0 0	68 0 0	1884	
	Kinatipalli	1,417	29 0 0	1,417	3	1,414	10 0 0	39 0 0	1884	
	Palmanér Range.									
	Mortana	16,000	516 0 0	16,000	..	16,000	155 0 0	671 0 0	1884	
	Musalimadugu	9,600	132 0 0	9,600	..	9,600	72 0 0	204 0 0	1884	
	Peddur	9,600	423 0 0	9,600	..	9,600	118 0 0	541 0 0	1880	
	Basvireddipalli	10,240	120 0 0	10,240	..	10,240	72 0 0	192 0 0	1884	
	Naikeneri	6,400	382 0 0	6,400	308	6,092	122 0 0	504 0 0	1884	
	Gudiyátam Range.									
	Ambúr drug	5,760	15 0 0	5,760	..	5,760	52 0 0	67 0 0	1880	

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
North Arcot—*cont.*	***Arcot Range.***	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
	Punganúr	3,342	999 0 0	3,743	113	3,630	371 0 0	1,370 0 0	1884	
	Javadi Hill Range.									
	Malayalam	..	..	12,800	..	12,800	35 0 0	35 0 0	1887	
	Wálajápet Range.									
	Ammanur	201	..	203	..	203	3 0 0	3 0 0	1880	
	Banavaram	1,051	47 0 0	1,051	..	1,051	6 0 0	53 0 0	1880	
	Total ..	150,768	9,885 0 0	165,352	2,384	162,968	2,423 0 0	12,308 0 0		
	GENERAL PROTECTION.									
	Javadi Hill Range.									
	Puttur	12,800	375 0 0	12,800	..	12,800	..	375 0 0	1879	
	Pattrakad	19,200	751 0 0	19,200	..	19,200	..	750 0 0	1881	
	Virappanur	64,000	..	64,000	..	64,000	..	..	1886	
	Pólúr Range.									
	Kapalúr	1,267	..	1,267	..	1,267	..	..	1884	
	Kilúr	3,537	..	3,537	..	3,537	..	..	1884	
	Alliyamangalam	10,062	..	10,062	..	10,062	..	..	1884	
	Vellore Range.									
	Amerdi plantation	25	..	25	..	25	..	..	1884	
	Topes.									
	Ambúr	5	..	5	..	5	..	..	1884	
	Chittur Range.									
	Penamúr	6,400	..	6,400	..	6,400	..	..	1880	
	Chandragiri Range.									
	Gazerlamandiyam plantation	250	..	250	..	250	..	..	1884	
	Gudiyátam Range.									
	Vikramasi	161	17 0 0	161	..	161	..	17 0 0	1882	
	Tiruvallam plantation	435	..	435	..	435	..	..	1884	
	Virinjipuram plantation	260	..	260	..	260	..	..	1884	
	Amundi plantation	160	..	160	..	160	..	..	1884	
	Cheynur tope	130	..	130	..	130	..	..	1884	
	Tandrayagunta tope	2	..	2	..	2	..	..	1884	

Area of forest tracts protected from fire during 1887-88—*cont.*

District	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
		ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS A. P.	RS. A. P.		
	Palmanér Range.									
	Palmanér tope	2	..	2	..	2	..	..	1884	
	Nagamangalam plantation	31	..	31	..	31	..	..	1884	
	Piduguvaripalle	20	..	20	..	20	..	..	1884	
	Vengatagirikóta	4	..	4	..	4	..	..	1884	
	Baireddipalle tope	4	..	4	..	4	..	..	1884	
	Arcot Range.									
	Kilminnel plantation	150	..	150	..	150	..	..	1884	
	Satúr	1,048	..	1,048	..	1,048	..	..	1884	
	Sennaleri	1,675	..	1,675	..	1,675	..	..	1884	
	Enadivadi	1,567	..	1,567	..	1,567	..	..	1884	
	Tandayappentangal	1,112	..	1,112	..	1,112	..	..	1884	
	Sholavaram	1,232	..	1,232	..	1,232	..	..	1884	
	Wandiwash Range.									
	Pannur	939	..	939	..	939	..	..	1880	
North Arcot—*cont.*	Venkundram	1,288	..	1,288	..	1,288	..	..	1880	
	Badur	873	..	873	..	873	..	..	1880	
	Nambedu	720	..	720	..	720	..	..	1880	
	Kodiyalam	125	..	125	..	125	..	..	1880	
	Nedungal	3,645	..	3,645	..	3,645	..	..	1883	
	Vishamangalam	1,148	..	1,148	..	1,148	..	..	1883	
	Nedungunam	1,797	..	1,797	..	1,797	..	..	1883	
	Bramhakateri	635	..	635	..	635	..	..	1883	
	Wálajápet Range.									
	Gúdalúr	535	..	535	..	535	..	..	1880	
	Kolatúr	1,779	..	1,779	..	1,779	..	..	1884	
	Urayur or Anantapuram	540	..	540	..	540	..	..	1880	
	Ammur	5,320	..	6,020	2,500	3,520	..	..	1884	
	Minnel	1,378	..	1,378	..	1,378	..	..	1884	
	Vanavedu plantation	30	..	30	..	30	..	..	1884	
	Arkónam tope	37	..	37	..	37	..	..	1884	
	Arkónam Sub-Magistrate's compound ..	5	..	5	..	5	..	..	1884	
	Head Assistant Collector's compound ..	4	..	4	..	4	..	..	1884	
	Tengal	250	..	..	..	..	..	..	1884	
	Total ..	146,587	1,143 0 0	147,038	2,500	144,538	..	1,143 0 0		
	Total of the District ..	297,355	11,028 0 0	312,390	4,884	307,506	2,423 0 0	13,451 0 0		

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Tiruvannámalai Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
South Arcot ..	Annamalai reserved forest	1,610	..	1,760	22	1,738	..	..	1878	
	Kavuttumalai	5,955	..	6,000	675	5,325	..	..	1878	
	Tenmalai	7,000	..	20,000	..	20,000	..	..	1877	
	Mudinai reserved forest	4,000	..	4,000	..	4,000	..	..	1883	
	Valasaimalai	6,950	..	7,000	..	7,000	..	..	1883-84	
	Damarakadu	7,700	..	8,000	..	8,000	..	..	1884	
	Perungolaturswamimalai reserved forest, including 2,000 acres in Kallakurchi taluk	9,000	..	9,000	300	8,700	..	..	1883-84	
	Tagarai. Lakshmipuram, Kalroyan slopes	14,300	..	15,000	..	15,000	..	..	1883-84	
	Parigam Kambattumalai	1,000	..	1,000	..	1,000	..	..	8885-86	
	Chinnasamudram	6,000	..	6,000	..	6,000	..	..	1878	
	Total of the District ..	63,515	3,190 0 0	77,760	997	76,763	1,233 0 0	4,423 0 0		
	SPECIALLY PROTECTED AREAS.									
	Salem Range.									
	Vadugampatti block, No. I	1,976	1,393 0 0	1,976	..	1,976	227 0 0	1,620 0 0	1881	Fire traced. Renewed 15¼ miles.
	Morur block, No. II	799	704 0 0	799	..	799	108 0 0	812 0 0	1881	Renewed 9 miles.
	Mallapuram block	587	724 0 0	587	..	587	101 0 0	825 0 0	1881	Do. 7½ ,,
	Ammaneri do.	252	224 0 0	252	..	252	71 0 0	295 0 0	1882	
	Pillapallikombai do.	981	427 0 0	981	..	981	95 0 0	522 0 0	1882	Do. 6 ,,
	Kariyappakombai do.	531	300 0 0	531	..	531	64 0 0	364 0 0	1882	Do. 4 ,,
	Kanjiri do.	1,929	356 0 0	1,929	..	1,929	150 0 0	506 0 0	1883	Do. 9½ ,,
	Pannikaradu do.	2,645	1,083 0 0	2,645	..	2,645	161 0 0	1,244 0 0	1883	Do. 10½ ,,
	Uttankarai Range.									
Salem Range ..	Karuvattuparai block	837	646 0 0	837	..	837	114 0 0	760 0 0	1884	Do. 7½ ,,
	Uttankarai do.	469	373 0 0	469	..	469	121 0 0	494 0 0	1881	Fire traced 1½ miles. Renewed 6 ,,
	Singarapet	2,524	1,352 0 0	2,624	..	2,624	194 0 0	1,546 0 0	1881	Do. 12 ,,
	Hosúr	1,176	661 0 0	1,176	..	1,176	172 0 0	833 0 0	1882	Do. 8¼ ,,
	Tirupatúr Range.									
	Kótur	1,213	128 0 0	1,213	..	1,213	51 0 0	179 0 0	1885	Do. 5½ ,,
	Krishnagiri Range.									
	Burgur block	147	258 0 0	220	..	220	50 0 0	308 0 0	1883	Do. 4 ,,
	Pudur do.	1,069	635 0 0	1,069	..	1,069	133 0 0	768 0 0	1883	Do. 6 ,,
	Togarapalle	499	97 0 0	499	..	499	45 0 0	142 0 0	1884	Do. 4½ ,,

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Hosúr Range.	Acs.	Rs. A. P.	Acs.	Acs.	Acs.	Rs. A. P.	Rs. A. P.		
Salem—*cont.*	Melgiri block, No. XVI..	5,431	240 0 0	5,461	..	5,461	204 0 0	444 0 0	1885	Renewed 13½ miles.
	Kanavoi Kottapalle block, No. XVII..	742	86 0 0	742	..	742	65 0 0	151 0 0	1885	Do. 4 ,,
	Gulhatti block, No. XVIII	3,248	171 0 0	3,248	..	3,248	147 0 0	318 0 0	1885	Do. 11 ,,
	Munchi block, No. XIX	3,305	220 0 0	3,305	..	3,305	125 0 0	345 0 0	1885	Do. 10 ,,
	Kanavanagasamudram block, No. XX.	316	88 0 0	416	..	416	73 0 0	161 0 0	1885	Do. 4 ,,
	Total of the District ..	30,676	10,166 0 0	30,979	..	30,979	2,471 0 0	12,637 0 0		
	Musiri.									
Trichinopoly ..	Sengattupatti	2,940	44 0 0	3,000	..	3,000	82 0 0	126 0 0	1885-86	
	Manmalai	..	..	3,000	..	3,000	111 0 0	111 0 0	1887-88	
	Kanapadi	..	..	12,000	..	12,000	49 0 0	49 0 0	1887-88	
	Kampankadu	..	..	2,000	..	2,000	34 0 0	34 0 0	1887-88	
	Melúr	3,000	49 0 0	3,000	..	3,000	119 0 0	168 0 0	1885-86	
	V. Kanapadi	..	..	10,000	..	10,000	76 0 0	76 0 0	1887-88	
	Perambalúr.									
	Manalodai	4,000	40 0 0	4,000	..	4,000	..	40 0 0	1885-86	
	Salamatti	7,000	840 0 0	7,000	50	6,950	205 0 0	1,045 0 0	1885-86	
	Total of District ..	16,940	973 0 0	44,000	50	43,950	676 0 0	1,649 0 0		
Tanjore	.....	*Nil.*								
	Kollegál.									
North Coimbatore	I. Jadatallahulla	361	157 0 0	361	..	361	73 0 0	260 0 0	1884-85	
	II. Udayárpálaiyam	297	127 0 0	297	..	297	96 0 0	223 0 0	1884-85	
	III. Bailúr	1,186	342 0 0	1,186	..	1,186	109 0 0	451 0 0	1879-80	
	Satiyamangalam.									
	IV. Gairmalai	520	43 0 0	520	..	520	..	43 0 0	1885-86	
	Total of the District ..	2,364	699 0 0	2,364	..	2,364	278 0 0	977 0 0		

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.		Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.				
	I. Tunakadavu Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.			
South Coimbatore..	Anaimalai	2,280	1,237 0 0	3,408	..	3,408	676 0 0	1,913 0 0		1882-83	
	III. Punachi Range.										
	Punachi	3,140	819 0 0	3,140	..	3,140	445 0 0	1,264 0 0		1882-83	
	IV. Udamalpet Range.										
	Udamalpet Palar..	485	230 0 0	485	..	485	50 0 0	280 0 0		1883-84	
	VII. Bolampatti Range.										
	Bolampatti	6,400	695 0 0	6,400	..	6,400	271 0 0	966 0 0		1884-85	
	VIII. Sholakarai Range.										
	Sholakarai	1,640	1,050 0 0	3,000	..	3,000	349 0 0	1,399 0 0		1883-84	
	Total of the District ..	13,945	4,031 0 0	16,433	..	16,433	1,791 0 0	5,822 0 0			
	SPECIAL PROTECTION.										
	RESERVED FORESTS.										
	No I. Periyakulam Range.										
Madura	Vannatiparai	26,836	792 0 0	27,481	8	27,473	44 0 0	836 0 0		1884-85	
	Sûranganar	3,606	12 0 0	3,616	..	3,616				1885-86	
	Melagudalur	1,280	16 0 0	1,280	..	1,280	460 0 0	744 0 0		1885-86	
	Pandaratorai	300	100 0 0	300	..	300				1886-87	
	Machakal	1,840	156 0 0	2,560	..	2,560				1886-87	
	Pambar	1,752	2,244 0 0	4,755	300	4,455	681 0 0	2,925 0 0		1883-84	
	Sengalvarai Ar	5,209	158 0 0	5,209	200	5,009	248 0 0	406 0 0		1885-86	
	No. II. Kodaikânal Range.										
	Pumbarai Vilapati valley	13,267	743 0 0	13,587	25	13,562	378 0 0	1,121 0 0		1885-86	
	Kudirai Ar and Kukkal	19,064	81 0 0	19,704	..	19,704	305 0 0	386 0 0		1886-87	
	No. III. Dindigul Range.										
	Sirumalai	25,509	907 0 0	25,530	21	25,509	408 0 0	1,315 0 0		1885-86	
	Mudumalai	6,086	294 0 0	6,086	..	6,086	129 0 0	423 0 0		1884-85	
	No. V. Madura Range.										
	Alagarmalai	12,786	5,560 0 0	13,036	..	13,036	757 0 0	6,317 0 0		1882-83	

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	RESERVED LANDS.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
	No. I. Periyakulam Range.									
	Mudugamalai Fuel and Fodder reserve.	3,217	540 0 0	3,227	..	3,227	266 0 0	806 0 0	1884-85	
	No. II. Kodaikánal Range.									
	Perumalmalai	7,500	1,161 0 0	7,700	..	7,700	467 0 0	1,628 0 0	1883-84	
	Arankanal	2,410	446 0 0	2,560	150	2,410	103 0 0	549 0 0	1883-84	
	Kallar	9,400	319 0 0	9,600	..	9,600	197 0 0	516 0 0	1885-86.	
	No. III. Dindigul Range.									
	Panjantangi	..	..	3,200	..	3,200	42 0 0	42 0 0	1887-88	
	No. IV. Melúr Range.									
	Karandamalais	..	..	22,400	..	22,400	33 0 0	33 0 0	1887-88	
	No. V. Madura Range.									
	Waggatumalai	4,200	434 0 0	4,200	..	4,200	63 0 0	497 0 0	1884-85	
Madura—*cont.*	Kachakatti Fuel and Fodder reserve ..	1,694	30 0 0	1,694	..	1,694	..	30 0 0	1884-85	
	Total ..	145,956	13,993 0 0	177,725	704	177,021	4,581 0 0	18,574 0 0		
	GENERAL PROTECTION.									
	No. I. Periyakulam Range.									
	Amburuvi	3,840	17 0 0	3,840	..	3,840	19 0 0	36 0 0	1886-87	
	No. II. Kodaikánal Range.									
	Kodaikánal scattered plantation ..	3	12 0 0	3	..	3	..	12 0 0	1883-84	
	Do. Acacia	5	7 0 0	5	..	5	..	7 0 0	1883-84	
	Do. Pumbarti	6	3 0 0	6	..	6	..	3 0 0	1883-84	
	Parappa	42	22 0 0	42	..	42	..	22 0 0	1884-85	
	Gunden shola	54	14 0 0	54	..	54	..	14 0 0	1886-87	
	Total ..	3,950	75 0 0	3,950	..	3,950	19 0 0	94 0 0		
	Total of the District ..	149,906	14,068 0 0	181,675	704	180,971	4,600 0 0	18,668 0 0		

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Southern Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
Tinnevelly ..	Block between Surveyar and Kariyar river, Pápanássm hills.	10,477	2,183 0 0	10,477	1,400	9,077	481 0 0	2,664 0 0	1884-85	
	Block between Surveyar, Kurampandi Teri, and Mutri Mottai.	1,180	270 0 0	1,200	300	900	425 0 0	695 0 0	1885-86	
	Alwarkurchi block	7,690	387 0 0	7,690	..	7,690	434 0 0	821 0 0	1886-87	
	Surveyar-Kariyar extension to the foot of the hills.	..	..	1,920	..	1,920	327 0 0	327 0 0	1887-88	
	Block of forests in Kalakad	8,320	911 0 0	8,320	..	8,320	505 0 0	1,416 0 0	1885-86	
	Do. do.	11,310	496 0 0	12,160	100	12,060	448 0 0	944 0 0	1886-87	
	Central Range.									
	Kuttálam block	..	..	5,120	..	5,120	262 0 0	262 0 0	1887-88	
	Kodiyanallúr block	..	..	2,560	..	2,560	157 0 0	157 0 0	1887-88	
	Boundary line between Chokampatti and Government forests.	3 miles.	145 0 0	..	..	..	..	145 0 0	1885-86	
	Boundary line between Viranankulam and Government forests.	10 „	310 0 0	..	..	..	..	310 0 0	1885-86	
	Northern Range.									
	Boundary line between Tirumalanaickan Pudukudi and Government forests.	3 „	30 0 0	..	..	..	..	30 0 0	1885-86	
	Total of the District ..	38,977 16 miles.	4,732 0 0	49,447	1,800	47,647	3,039 0 0	7,771 0 0		
	SPECIAL PROTECTION.									
North Malabar ..	Begúr	15,362	2,147 0 0	15,366	1,403	13,963	962 0 0	3,109 0 0	1882-83	
	GENERAL PROTECTION.									
	Kurchiyat	..	..	18,054	300	17,754	174 0 0	174 0 0	1887-88	
	Total ..	15,362	2,147 0 0	33,420	1,703	31,717	1,136 0 0	3,283 0 0		

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.		Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.				
	SPECIAL PROTECTION.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.			
	Nilambúr.										
South Malabar ..	Karimpoya reserve	3,955	308 0 0	3,955	..	3,955	185 0 0	493 0 0		1884-85	
	Amarampalaiyam reserve	468	211 0 0	468	..	468	75 0 0	286 0 0		1860-61	
	Chatambarai do.	700	123 0 0	700	..	700	82 0 0	205 0 0		1872-73	
	Nellikutta do.	1,824	412 0 0	1,824	..	1,824	115 0 0	527 0 0		1883-84	
	Teak plantation do.	2,500	1,299 0 0	2,500	..	2,500	462 0 0	1,761 0 0		1842-43	
	Pálghat.										
	Wálayár Reserve	3,017	3,989 0 0	3,017	..	3,017	455 0 0	4,444 0 0		1873-74	
	Chenat Nair do.	11,952	425 0 0	15,203	..	15,203	420 0 0	845 0 0		1884-85	
	Total of the District ..	24,416	6,767 0 0	27,667	..	27,667	1,794 0 0	8,561 0 0			
	SPECIAL PROTECTION.										
	Condapur Range.										
South Canara ..	Sabladi	208	45 0 0	208	..	208	41 0 0	86 0 0		1884-85	
	Sarpanamanekadú and Goligundi guddi reserved lands.	30	16 0 0	50	..	50	30 0 0	46 0 0		1886-87 and 1887-88	
	Udipi Range.										
	Pillarkan	318	33 0 0	320	..	320	48 0 0	81 0 0		1883-84	
	Chihkramale	2,527	234 0 0	2,560	2	2,558	308 0 0	542 0 0		1885-86 and 1886-87.	
	Manajikadu	1,230	98 0 0	420	..	420	123 0 0	221 0 0		1886-87	
	Tenkahola	1,920	47 0 0	2,068	..	2,068	277 0 0	324 0 0		1886-87	
	Uppinangadi Range.										
	Darmastalamandaji reserve	..	..	2,460	..	2,460	133 0 0	133 0 0		1887-88	
	Mangalore Range.										
	Chembugudde	75	14 0 0	75	..	75	5 0 0	19 0 0		1884-85	
	Kuttiyar	25	9 0 0	25	..	25	3 0 0	12 0 0		1884-85	
	Poitagi Kayarpalle	96	15 0 0	96	..	96	7 0 0	22 0 0		1885-86	

Area of forest tracts protected from fire during 1887-88—*cont.*

District.	Forest tract.	Up to 31st March 1887.		During 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Failures.	Area actually protected.	Amount expended.			
	Kásaragód Range.	ACS.	RS. A. P.	ACS.	ACS.	ACS.	RS. A. P.	RS. A. P.		
South Canara—*cont.*	Parappa	115	120 0 0	50	..	50	13 0 0	133 0 0	1882-83	
	Total of the District ..	6,544	631 0 0	8,332	2	8,330	988 0 0	1,619 0 0		
	Grand Total ..	667,350	60,315 0 0	800,162	10,161	790,001	20,712 0 0	81,027 0 0		
				ABSTRACT.						
Chingleput	....	7,350	1,883 0 0	15,695	21	15,674	283 0 0	2,166 0 0		
North Arcot	....	297,355	11,028 0 0	312,390	4,884	307,506	2,423 0 0	13,451 0 0		
South Arcot	....	63,515	3,190 0 0	77,760	997	76,763	1,233 0 0	4,423 0 0		
Salem	....	30,676	10,166 0 0	30,979	..	30,979	2,471 0 0	12,637 0 0		
Trichinopoly ..	....	16,940	973 0 0	44,000	50	43,950	676 0 0	1,649 0 0		
Tanjore	....	..	..	..	..	..	..	..		
North Coimbatore ..	....	2,364	699 0 0	2,364	..	2,364	278 0 0	977 0 0		
South Coimbatore ..	....	13,945	4,031 0 0	16,433	..	16,433	1,791 0 0	5,822 0 0		
Madura	....	149,906	14,068 0 0	181,675	704	180,971	4,600 0 0	18,668 0 0		
Tinnevelly	....	38,977	4,732 0 0	49,447	1,800	47,647	3,039 0 0	7,771 0 0		
North Malabar ..	....	15,362	2,147 0 0	33,420	1,703	31,717	1,136 0 0	3,283 0 0		
South Malabar ..	....	24,416	6,767 0 0	27,667	..	27,667	1,794 0 0	8,561 0 0		
South Canara ..	....	6,544	631 0 0	8,332	2	8,330	988 0 0	1,619 0 0		
	Total ..	667,350	60,315 0 0	800,162	10,161	790,001	20,712 0 0	81,027 0 0		
				Charged in previous years				43,504 0 0		
				Do. do. 1886-87				16,811 0 0		
				Do. do. 1887-88				20,712 0 0		
							Total ..	81,027 0 0		

Annual Form No. 63.

Forest Department, Madras, Southern Circle.

Prosecution for Breaches of Forest Rules during 1887-88.

District.	Cases pending from 1886-87.	New cases of the year.					Total Cases.	Disposed of during the year.									Cases. pending at close of year.
		Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Compounded.		Withdrawn.		Total.	
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	Cases.	Persons.
Chingleput	..	..	14	1	5	20	20	16	64	3	8	..	..	..	..	19	72	1
North Arcot	5	1	58	40	57	156	161	69	192	24	108	64	125	..	..	157	425	4
South Arcot	20	..	60	62	38	160	180	44	123	15	101	85	169	..	..	144	393	36
Salem	55	6	267	68	15	366	411	25	107	23	180	308	1,063	23	156	379	1,506	32
Trichinopoly	8	1	245	85	13	344	352	229	369	67	197	22	24	..	..	318	590	34
Tanjore	25	..	165	..	5	170	195	149	200	7	25	19	54	..	..	175	279	20
North Coimbatore	..	..	25	31	1	57	57	45	103	5	25	..	..	..	..	50	128	7
South Coimbatore	6	..	14	22	3	39	45	19	72	3	6	12	23	..	..	34	101	11
Madura .. Under the Forest Act.	9	9	42	..	3	59	69	29	81	27	71	..	..	..	..	62	180	7
Madura .. Under the Penal Code	1	..	..	..	5			1	2	5	26	..	..	..	..			
Tinnevelly. Under the Forest Act	..	13	25	7	5	80	84	26	74	21	89	3	7	..	..	78	232	6
Tinnevelly. Under the Penal Code	4	..	2	..	28			25	48	3	14	..	..	..	..			
North Malabar	4	..	14	12	3	29	33	3	3	3	5	24	49	2	3	32	60	1
South Malabar	1	..	16	..	4	20	21	18	70	1	17	1	3	..	..	20	90	1
South Canara	18	..	118	2	34	154	172	93	138	23	53	43	58	..	..	159	249	13
Total ..	156	30	1,065	330	219	1,644	1,800	791	1,646	230	925	581	1,575	25	159	1,627	4,305	173

ANNUAL FORM No. 64.

Forest Department, Madras, Southern Circle.

Summary of Revenue of the different Districts, 1887-88.

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
RECEIPTS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I. Timber and other produce removed from the forests by Government agency—															
(a) Timber	..	..	827	3,234	984	59	..	5	21,324	2,807	5,943	21,968	40,792	12,685	1,10,528
(b) Firewood and charcoal	..	858	10,336	11,109	90	15,038	333	..	..	1,968	751	..	343	842	41,668
(c) Bamboos	..	..	47	12	48	7	..	..	..	..	119	..	572	..	805
(d) Sandalwood ..	..	..	..	102	588	..	..	..	..	..	..	..	..	..	690
(e) Grass and other minor produce ..	..	..	..	937	..	..	..	..	7,564	..	..	66	34	27,838	36,439
II. Timber and other produce removed from the forests by consumers or purchasers—															
(a) Timber	..	6,663	9,925	7,919	17,166	14,215	485	5,230	4,883	19,100	6,191	805	3,550	2,751	98,883
(b) Firewood and charcoal	..	6,225	42,704	14,664	23,233	6,448	5,466	6,034	11,425	9,955	23,868	..	2,732	5,864	1,58,618
(c) Bamboos	..	265	19,434	2,472	29,069	4,253	79	11,264	4,967	2,600	560	247	464	580	76,254
(d) Grazing and fodder grass	..	1,244	30	2,226	..	5,140	593	29,049	5,584	1,524	609	..	27	12	46,038
(e) Other minor produce.	..	4,497	21,106	45,826	52,831	4,885	2,188	31,820	14,167	19,939	17,617	4,441	359	4,111	2,23,787
III. Confiscated drift and waifwood	..	28	238	360	425	187	10	78	412	448	281	18	80	489	3,054
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
V. Miscellaneous—															
(a) Fines and forfeitures	..	100	4	75	15	3	..	..	..	10	366	..	..	1,000	1,573
(b) Refunds	141	217	44	1,206	672	..	24	15	209	120	148	162	105	339	3,402
(c) Other sources ..	..	56	1,209	1,070	1,288	152	149	46	1,749	138	441	453	1,024	683	8,458
Total, Receipts ..	141	20,153	1,05,904	91,212	1,26,409	50,387	9,327	83,541	72,284	58,609	56,794	28,160	50,082	57,194	8,10,197

MADRAS,
12th July 1888.

C. G. DOUGLAS,
Examiner of Forest Accounts.

Annual Form No. 64.

Forest Department, Madras, Southern Circle.

Summary of Expenditure of the different districts, 1887-88.

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
A.—*Conservancy and Works.*	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Timber and other produce removed from the forests by Government agency—															
(*a*) Timber	..	..	2,804	2,048	1,023	1	..	..	14,331	1,798	3,770	1,090	7,759	10,619	45,243
(*b*) Firewood and charcoal ..	..	783	1,680	4,567	..	6,503	66	..	..	1,727	894	..	..	539	16,759
(*c*) Bamboos	..	..	2	1	20	..	..	..	..	..	193	..	..	..	216
(*d*) Sandalwood	..	..	1,138	..	53	..	..	2	..	..	..	..	..	..	1,193
(*e*) Grass and other minor produce	..	..	..	639	..	112	..	2	6,401	..	..	16	..	21,126	28,296
II. Timber and other produce removed from the forests by consumers or purchasers	610	1,056	5,659	2,401	9,834	3,375	302	6,138	3,143	4,317	4,095	16	26	3,511	44,483
III. Confiscated, drift and waifwood ..	..	..	7	48	11	..	..	8	93	17	12	..	..	4	200
IV. Revenue from forests not managed by Government	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government ..	..	..	..	..	..	..	..	..	1,255	..	..	..	688	..	1,943
VI. Live-stock, stores, tools and plant—															
(*a*) Purchase of cattle	..	..	..	..	..	..	..	..	..	120	..	..	4,002	..	4,122
(*b*) Feed and keep of cattle ..	..	..	..	18	..	822	..	..	..	507	..	2,270	2,966	..	6,583
(*c*) Stores, tools and plant ..	1,328	278	118	363	631	42	16	964	158	281	269	253	795	182	5,678
VII. Communications and buildings—															
(*a*) Roads and bridges ..	..	560	1,317	820	75	402	..	434	1,530	1,489	5,344	503	1,550	..	14,024
(*b*) Buildings	..	272	804	576	903	218	43	3,104	936	437	1,696	2,009	6,117	192	17,307
(*c*) Other works	..	..	..	140	..	..	..	6	468	..	14	326	203	..	1,157
VIII. Demarcation, improvement and extension of forests—															
(*a*) Demarcation	..	1,382	2,062	659	3,969	399	118	168	61	582	1,222	425	250	316	11,613
(*b*) Compensation for land and rights	..	105	94	522	2,121	18	..	..	..	150	..	..	42,713	..	45,723
(*c*) Surveys and working plans.	665	..	..	4	835	500	39	20	1,277	1,028	402	33	..	1,061	5,864
(*d*) Plantations	..	1,324	7,075	4,400	823	4,058	1,394	1,475	..	800	646	959	6,483	702	30,139
(*e*) Protection from fire ..	..	283	2,423	1,233	2,471	676	..	279	1,792	4,608	3,015	1,150	1,794	988	20,712
(*f*) Other works	..	1,525	5,621	5,171	3,050	1,166	1,475	1,050	641	1,337	4,409	141	420	285	26,291
IX. Miscellaneous—															
(*a*) Refunds	14	464	153	75	196	99	15	25	58	4	233	..	..	307	1,643
(*b*) Law charges	..	5	..	1	1,500	..	..	..	99	..	5	694	16	33	2,353
(*c*) Other charges	118	16	29	6	77	..	..	12	3,240	140	3	3	224	27	3,895
Total, A.—Conservancy and Works ..	2,735	8,053	30,986	23,692	27,592	18,391	3,468	13,687	35,483	19,342	26,222	9,888	76,006	39,892	3,35,437

Summary of Expenditure of the different districts, 1887-88—*cont.*

Budget heads.	Direction.	Chingleput.	North Arcot.	South Arcot.	Salem.	Trichinopoly.	Tanjore.	North Coimbatore.	South Coimbatore.	Madura.	Tinnevelly.	North Malabar.	South Malabar.	South Canara.	Total.
B.—*Establishments.*	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward—Total A.—Conservancy and Works ..	20,735	8,053	30,986	23,692	27,592	18,391	3,468	13,687	35,483	19,342	26,222	9,888	76,006	39,892	3,35,437
I. Salaries—															
(*a*) Conservators ..	20,401	..	..	..	..	..	..	..	..	..	..	..	..	..	20,401
(*b*) Superior officers ..	18,137	3,000	6,361	9,242	8,122	7,561	1,200	8,809	7,328	4,797	6,788	6,043	7,660	5,161	1,00,209
(*c*) Subordinate forest and depôt establishments	5,015	2,840	10,491	9,252	13,411	5,380	1,260	4,911	7,897	6,907	6,088	6,738	3,899	4,875	88,964
(*d*) Office establishments	17,420	1,113	2,524	2,350	3,063	1,732	468	2,364	2,684	1,981	1,953	2,423	1,591	1,914	43,580
(*e*) Deputation and special allowances.	..	..	..	..	..	..	..	..	54	..	..	..	..	..	54
II. Travelling allowances—															
(*a*) Conservators ..	3,388	..	..	..	..	..	..	..	..	..	..	..	..	..	3,388
(*b*) Superior officers ..	4,090	1,446	1,297	1,800	1,321	1,829	..	1,702	1,764	1,750	1,697	916	1,616	1,440	22,662
(*c*) Subordinate forest and depôt establishments ..	1,878	762	3,360	2,241	4,153	1,848	296	1,354	2,389	1,919	1,940	2,208	1,053	1,551	26,952
(*d*) Office establishments	3,317	173	273	285	323	101	49	433	108	387	274	168	90	252	6,233
III. Contingencies—															
(*a*) Stationery	57	..	..	..	2	..	..	..	4	..	..	..	..	..	63
(*b*) Carriage of tents and records	751	36	96	77	250	29	..	134	48	156	121	96	16	242	2,052
(*c*) Rents, rates and taxes	37	..	6	396	58	240	..	294	302	6	4	75	..	..	1,418
(*d*) Pay of police guards.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(*e*) Official postage ..	1,045	174	336	566	840	307	103	316	253	369	445	130	123	442	5,449
(*f*) Sundries	1,486	412	816	336	1,278	219	87	541	650	613	464	295	44	315	7,556
Total, B.—Establishments ..	77,022	9,950	25,560	26,545	32,821	19,246	8,463	20,858	23,481	18,885	19,774	19,092	16,092	16,192	3,28,981
Grand Total of Expenditure ..	79,757	18,003	56,546	50,237	60,413	37,637	6,951	34,545	58,964	38,227	45,996	28,980	92,098	56,084	6,64,418

MADRAS,
13th July 1888.

C. G. DOUGLAS,
Examiner of Forest Accounts.

Annual Form No. 65.

Forest Department, Madras, Southern Circle.

Outstandings and liabilities on account of contractors and disbursers for 1887-88.

District.	Department debtor.			Department creditor.			Balance due.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Conservator, Southern Circle	..	3,820 5 9	3,820 5 9	357 12 1	3,643 1 5	4,000 13 6	180 7 9	..	
Three-fifths of Examiner's office	..	698 9 8	698 9 8	0 9 11	734 3 1	734 13 0	36 3 4	..	
Forest Settlement-officer, Chingleput and Tinnevelly.	..	282 6 7	282 6 7	40 3 0	262 3 7	302 6 7	20 0 0	..	
Forest Settlement-officer, Salem, &c.	..	....	....	....	....	....	....	..	
Forest School Dehra, Dun	..	4,445 1 7	4,445 1 7	178 5 4	4,303 12 3	4,482 1 7	37 0 0	..	
Chingleput	..	8,024 11 7	8,024 11 7	1,105 10 5	7,127 8 3	8,233 2 8	208 7 1	..	
North Arcot	..	41,645 15 7	41,645 15 7	216 11 1	41,581 14 8	41,798 9 9	152 10 2	..	
South do.	..	35,086 4 11	35,086 4 11	....	36,100 4 2	36,100 4 2	1,013 15 3	..	
Salem	..	37,217 8 11	3,7217 8 11	1,336 13 7	36,616 2 11	37,953 0 6	735 7 7	..	
Trichinopoly	..	25,674 1 11	25,674 1 11	327 5 6	25,582 10 8	25,910 0 2	235 14 3	..	
Tanjore	..	5,000 11 3	5,000 11 3	4 0 0	5,033 12 0	5,037 12 0	37 0 9	..	
North Coimbatore	..	19,566 10 6	19,566 10 6	1,624 3 7	19,802 1 3	21,426 4 10	1,859 10 4	..	
South Do.	..	32,742 11 3	32,742 11 3	3,797 0 0	30,018 10 10	33,815 10 10	1,072 15 7	..	
Madura	..	22,963 8 2	22,963 8 2	3,338 6 0	22,037 15 5	25,376 5 5	2,412 13 3	..	
Tinnevelly	..	34,046 15 0	34,046 15 0	2,476 1 11	34,711 11 5	37,187 13 4	3,140 14 4	..	
North Malabar	..	9,551 1 10	9,551 1 10	2,178 9 5	9,569 15 0	11,748 8 5	2,197 6 7	..	
South Do.	..	63,421 7 9	63,421 7 9	525 15 5	68,752 15 2	69,278 14 7	5,857 6 10	..	
South Canara	..	35,412 12 9	35,412 12 9	10,394 12 8	30,666 7 10	41,061 4 6	5,648 7 9	..	
Total ..	..	3,79,601 1 0	3,79,601 1 0	27,902 7 11	3,76,545 5 11	4,04,447 13 10	24,846 12 10	..	

Madras,
10th July 1888.

C. G. DOUGLAS,
Examiner of Forest Accounts.

Annual Form No. 66.

Forest Department, Madras, Southern Circle.

Revenue received and outstandings on account of revenue during 1887-88.

District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realised during year.	Balance due to the department at end of year.
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Direction	Timber and other produce.	..	141 2 6	141 2 6	141 2 6	..
Chingleput ..		..	20,153 1 9	20,153 1 9	20,153 1 9	..
North Arcot ..		3,454 10 0	1,03,033 4 0	1,06,487 14 0	1,05,903 15 4	583 14 8
South Arcot ..		167 8 0	92,173 11 5	92,341 3 5	91,211 14 0	1,129 5 5
Salem		..	1,26,408 11 11	1,26,408 11 11	1,26,408 11 11	..
Trichinopoly ..		759 8 3	50,334 4 1	51,093 12 4	50,387 1 4	706 11 0
Tanjore		..	9,334 12 8	9,334 12 8	9,326 12 8	8 0 0
North Coimbatore.		* 20,419 9 9 — 19,200 0 0	83,387 10 1	84,607 3 10	83,541 2 5	1,066 1 5
South Do.		2,711 1 7	72,583 15 4	75,295 0 11	72,283 11 10	3,011 5 1
Madura		1,460 13 3	59,722 5 5	61,183 2 8	58,609 13 5	2,573 5 3
Tinnevelly ..		1,438 0 5	55,796 7 0	57,234 7 5	56,793 8 9	440 14 8
North Malabar ..		..	28,159 9 11	28,159 9 11	28,159 9 11	..
South do. ..		74 7 0	50,486 10 7	50,561 1 7	50,082 1 3	479 0 4
South Canara ..		120 0 0	57,075 1 10	57,195 1 10	57,194 1 10	1 0 0
	Total ..	(a) 30,605 10 3 — 1,9200 0 0	8,08,790 12 6	8,20,196 6 9	8,10,196 12 11	(a) 9,999 9 10

* Arrears of tree rents written off under G.O., dated 19th August 1887, Mis. No. 4897, Revenue Department.

	Rs. A. P.	Rs. A. P.
(a) Under Budget head I	4,678 9 8	1,917 12 5
,, ,, II	25,922 0 7	7,703 11 5
,, ,, III	5 0 0	..
,, ,, V	..	378 2 0
Total ..	30,605 10 3	9,999 9 10

Madras,
13th July 1888.

C. G. DOUGLAS,
Examiner of Forest Accounts.

Annual Form No. 67.

Forest Department, Madras, Southern Circle.

Financial results of the year 1887-88.

District.	Timber and other produce removed from the forests by Government agency.		Other revenue.		Formation, protection and improvement of forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Direction	..	..	141	8	..	141	8
Chingleput	858	2,393	19,295	6,891	11,900	20,153	21,184
North Arcot	11,210	12,803	94,694	20,323	32,710	1,05,904	65,836
South do.	15,394	14,752	75,818	15,913	27,660	91,212	58,325
Salem	1,710	5,695	1,24,699	32,386	33,013	1,26,409	71,094
Trichinopoly	15,104	15,083	35,283	11,942	15,644	50,387	42,669
Tanjore	333	109	8,994	1,952	5,799	9,327	7,860
North Coimbatore	5	1,267	83,536	23,561	16,469	83,541	41,297
South do.	28,888	34,574	43,396	18,063	13,832	72,284	66,469
Madura	4,775	9,385	53,834	16,375	18,004	58,609	43,764
Tinnevelly	6,713	11,269	50,081	18,139	21,467	56,794	50,875
North Malabar	22,031	12,130	6,126	3,631	16,487	28,160	32,248
South do.	41,741	26,645	8,341	5,063	68,520	50,082	1,00,228
South Canara	41,365	43,539	15,829	9,954	9,068	57,194	62,561
Total ..	1,90,130	1,89,644	6,20,067	1,84,201	2,90,573	8,10,197	6,64,418

Annual Form No. 68.

Forest Department, Madras, Southern Circle.

Trees felled by Government Agency during the year 1887-88.

(Selection Fellings).

District.	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
Chingleput ..	....	....	*Nil.*							
North Arcot ..	Gudiyátam range ..	Casuarina trees	..	126	126	Transferred to form No. 69 ..	126	126	..	
	Chittur Range ..	Do.	..	39	39	Do. do. do.	39	39	..	
	Pólár do. ..	Do.	..	15	15		15	15	..	
	Chandragiri range ..	Do.	..	20	20		20	20	..	
		Total of district ..	..	200	200		200	200	..	
South Arcot ..	Chengam circle forest.	Vengai	..	91	91	Converted into poles 242	91	91	..	
	Checkadi do.	Do.	..	137	137		137	137	..	
		Acha	..	3	3	Do. into logs .. 3	3	3	..	
		Mango-wood	..	2	2	Do. do. .. 7	2	2	..	
	Chengam and Checkadi.	Miscellaneous timber	..	1,277	1,277	Do. into poles .. 11 Do. do. .. 1,451	1,277	1,277	..	
		Total of district ..	..	1,510	1,510		1,510	1,510	..	
Salem	Hosúr range ..	Teak	..	3	3	Transferred to form No. 69 ..	3	3	..	
		Bilvaram	..	28	28		28	28	..	
		Junglewood	..	313	313		313	313	..	
		Miscellaneous timber	..	636	636		636	636	..	
		Total of district ..	..	980	980		980	980	..	
Trichinopoly ..	Kulitalai range ..	Casuarina trees	..	14	14	Transferred to form No. 69 ..	14	14	..	
		Babul	..	1	1		1	1	..	
		Vagai	..	2	2		2	2	..	
		Dalbergia sissu	..	3	3		3	3	..	
		Ficus Indica	..	1	1		1	1	..	
		Total of district ..	..	21	21		21	21	..	

Trees felled by Government Agency during the year 1887-88—*cont.*

District.	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
Tanjore	....	....	*Nil.*							
North Coimbatore.	....	....	*Nil.*							
South Coimbatore	No I. Tunakadavu range.	Teak	..	366	366	Converted into logs .. 497 / rafters .. 154	366	366	..	
		Rosewood	..	5	5	Do. into rafters .. 5	5	5	..	
		Miscellaneous trees	..	118	118	Do. into logs .. 148	118	118	..	
	No II. Pollâchi range.	Teak	..	115	115	Do. into logs .. 88 / rafters .. 27	115	115	..	
		Rosewood	..	17	17	Do. into logs .. 17	17	17	..	
		Vengai	..	1	1	Do. into logs .. 1	1	1	..	
		Total of district ..	..	622	622	Do. into logs .. 730 / rafters .. 186	622	622	..	
Madura	No. I. Periyakulam range.	Teak	..	4	4	Converted into logs.	4	4	..	
		Blackwood	..	22	22	Do. into 22 logs. ..	22	22	..	
		Vengai	..	90	90	Converted into logs	90	90	..	
		Miscellaneous trees	..	3	3	Do. do. ..	3	3	..	
	No. Kodaikânal ..	Vagai and Naval	9	66	75	Do. into 80 logs ..	75	75	..	
		Total of district ..	9	185	194		194	194	..	
Tinnevelly ..	Ambâsamudram ..	Kongu	..	217	217	Converted into 3,505 scantlings. 213 / Lost in the river .. .. 2 / Wastage 1	216		1	
North Malabar ..	Begur	Benteak	..	6	6	Converted into 9 logs	6	6	..	
		Miscellaneous trees	..	8	8	Do. into 10 do.	8	8	..	
		Total of district ..	..	14	14	Do. into 19 logs.	14	14	..	

Trees felled by Government Agency during the year 1887-88—*cont.*

District	Range, forest or working circle.	Description of trees.	Number of trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
South Malabar ..	Nilambúr	Teak	10	..	10	Converted into 16 logs ..	10	10	..	
		Blackwood	39	66	105	Transferred to form No. 69 ..	105	105	..	
		Miscellaneous trees	90	229	319	Do do. ..	319	319	..	
	Pálghat	Blackwood	19	38	57	Converted into 85 logs	56	57	..	
						Given up	1			
		Miscellaneous trees	2	125	127	Converted into 214 logs ..	125	125	2	
		Vengai	..	1	1	Do do 1 log	1	1	..	
		Total of district ..	160	459	619		617	617	2	
South Canara ..	Condapur range ..	Rosewood	1	19	20	Converted into 20 logs	17	18	2	
						Struck out	1			
		Miscellaneous trees	4	96	100	Converted into 91 logs	90	95	5	
						Struck out	4			
						Abandoned	1			
	Uppinangadi range .	Rosewood	7	1	8	Converted into 3 logs	3	3	5	
		Vengai	3	..	3	Do. into logs	3	3	..	
		Miscellaneous trees	296	93	389	Do. into 304 logs ..	304	316	73	
						Do. into 14 boats ..	12			
		Total of district ..	311	209	520		435	435	85	
		ABSTRACT.								
		Teak	10	488	498	Converted into 605 logs .. 151 rafters ..	495	498	..	
						Transferred to form No. 69 ..	3			
		Benteak	..	6	6	Converted into 9 logs	6	6	..	
		Vengai	12	386	398	Do. into 175 logs .. 242 poles .	398	398	..	
		Casuarina trees	..	214	214	Transferred to form No. 69 ..	214	214	..	
		Rosewood	66	168	234	Converted into 147 logs .. 5 rafters ..	120	227	7	
						Transferred to form No. 69 .	105			
						Rejected	2			
		Junglewood	..	313	313	Transferred to form No. 69 ..	313	313	..	
		Miscellaneous trees	392	2,842	3,234	Converted into 1,462 poles .. 780 logs .. 14 boats .. 3,505 scantlings	2,155	3,153	81	
						Transferred to form No. 69 ..	990			
						Lost	2			
						Rejected	2			
						Struck out	4			
		Total ..	480	4,417	4,897		..	4,809	88	

Annual Form No. 69.

Forest Department, Madras, Southern Circle.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88.

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
			Tons.	lb.	Tons.	lb.	Tons.	lb.		Tons.	lb.	Tons.	lb.
Chingleput.	Tiruvallúr ..	Fuel	30	135	43	200	73	335	Converted into charcoal and sold.	(a) 64	2,209	..	..
									Sold	7	..		
									Wastage	1	366		
		Firewood	..	..	199	2,239	199	2,239	Sold	199	2,239	..	..
		Do. billets ..	..	..	13	..	13	..	Do.	13	..	..	..
		Do. stumps dug out.	..	..	19	1,320	19	1,320	Do.	1	1,120	18	200
	Chingleput ..	Firewood	..	..	17	300	17	300	Do.	17	300	..	..
		Total of district ..	30	135	292	1,819	322	1,954	..	304	1,754	18	200
North Arcot	Chittur range.	Casuarina branchwood.	..	..	Tons. 3	..	Tons. 3	..	Sold	Tons. 3	..	..	..
		Casuarina trees ..	..	..	No. 39	..	No. 39	..	Do.	No. 39	..	..	..
	Chandragiri ..	Redwood roots and stumps.	..	..	Tons. 311	..	Tons. 311	..	Carted to Mamandúr and Nagapatla depôts.	Tons. 311	..	..	..
		Casuarina trees ..	..	..	No. 20	..	No. 20	..	Sold to Executive Engineer, Rénigunta	No. 20	..	..	..
	Gudiyátam ..	Casuarina wood ..	..	..	Tons. 978	lb. 1,120	Tons 978	lb 1,120	Sold to Messrs. Morrison and Sons.	Tons. 977	lb. ..	..	..
									Sold to public ..	1	1,120		
		Do. branchwood.	Tons 75	lb. 1,307	214	2,053	290	1,120	Sold to public ..	11	..	..	..
									Sold to Messrs. Morrison and sons.	279	1,120		
		Do. trees ..	..	..	No. 126	..	No. 126	..	Do. do. ..	No. 70	..	..	..
									Sold to Executive Engineer	46	..		
									Sold to public ..	10	..		
	Vellore range ..	Babul wood ..	..	..	Tons. 117	lb 104	Tons. 117	lb 104	Carted to Jail depôt.	Tons. 117	lb. 104	..	..

(a) Outturn Tons 13 lb. 276.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
North Arcot—*cont.*	Vellore range—*cont.*	Bamboos	..	..	No. 500	..	No. 500	..	Sold to Nizam's Government.	No. 500	..	..	..
	Arcot range ..	Casuarina wood ..	..	..	Tons. 79	lb. 373	Tons. 79	lb. 373	Carted to Jail depôt ..	Tons. 78	lb. 1,493	..	..
									Sold to public ..	..	1,120	..	..
		Do. branch-wood.	..	..	20	..	20	..	Do.	20	..	..	..
		Palmyra trees ..	..	..	No. 6	..	No. 6	..	Sold to Sub-Collector.	No. 6	..	..	..
	Pólúr range ..	Casuarina trees ..	..	..	15	..	15	..	Sold to public ..	15	..	..	..
	Javadi range ..	Sandalwood roots and stumps.	..	..	Tons. 26	lb. 76	Tons. 26	lb. 76	Carted to Vellore sandalwood depôt.	Tons. 26	lb. 76	..	..
South Arcot.	I. Tiruvannámalai range.	Vengai poles ..	..	..	No. 242	C. ft. Pts. 426—11	No. 242	C. ft. Pts. 426—11	Removed to Tiruvannámalai depôt	No. 236	C. ft. Pts. 416—3	..	..
									Sold	6	10—8	..	..
		Acha logs	..	..	3	29—0	3	29—0	Removed to Tiruvannámalai depôt.	3	29—0	..	..
		Mango-wood logs and poles.	..	..	18	155—2	18	155—2	Do.	18	155—2	..	..
		Miscellaneous timber poles.	..	..	1,451	2,920—8	1,451	2,920—8	Do.	1,072	2,283—9	..	..
									Sold	379	636—11		
		Dead firewood ..	..	..	Tons. ..	lb. 1,120	Tons. ..	lb. 1,120	Removed to Tiruvannámalai depôt.	Tons. ..	lb. 1,120	..	..
		Sandalwood billets.	..	..	..	21	..	21	Sold	..	21	..	..
		Do. roots..	..	..	..	14	..	14	Do.	..	14	..	..
		Miscellaneous seeds.	..	..	11	276¾	11	276¾	Do.	11	276¾	..	..
		Gallnuts	..	..	7	126	7	126	Do.	6	1,806	..	..
									Removed to Tiruvannámalai depôt.	..	560		
		Sembram bark ..	..	..	2	280	2	280	Sold	2	280	..	..
		Honey	..	..	..	220½	..	220½	Do.	..	146	..	..
									Removed to Tiruvannámalai depôt.	..	74½		
		Wax	..	..	..	61	..	61	Do.	..	5	..	..
									Sold	..	56		
	II. Tindivanam range.	Miscellaneous timber.	..	..	No. 3	..	No. 3	..	Sold	No. 3	..	..	..
		Bamboos	..	..	5	..	5	..	Do.	5	..	..	..

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Arcot—*cont.*	II. Tindivanam range—*cont.*	Honey	Tons. ..	lb. ..	Tons. ..	lb. 12	Tons. ..	lb. 12	Sold	Tons. ..	lb. 4	..	..
									Removed to Tindivanam depôt.	..	8		
		Wax	..	..	..	4	..	4	Do.	..	4	Tons.	
	III. Villupuram range.	Babul firewood ..	34	..	895	2,232	929	2,232	Sold	928	2,232	1	..
		Bamboos	..	..	..	112	..	112	Do.	..	112	..	..
		Do.	..	..	No. 31	.. lb. 336	No. 31	.. lb. 336	Do.	No. 31	.. lb. 336	..	..
		Grass	..	..	..	..	..	..	Do.	..	..	..	..
					No.	C. ft. Pts.	No.	C. ft. Pts.		No.	C. ft. Pts.	No.	C.ft.
	IV. Cuddalore range.	Casuarina timber poles.	..	..	1887	3,700—7	1887	3,700—7	Do.	1,615	2,614—8		
									Supplied free to South Arcot District Jail Department.	69	194—11	51	480—7
									Converted into firewood and sold.	..	(*b*) 152—5		
									Used by department ..	152	258—0		
			Tons.	lb.	Tons.	lb.	Tons.	lb.		Tons.	lb.		
		Casuarina firewood.	16	1,978	757	1,005	774	743	Sold	748	304		lb.
									Supplied to backwater canal work.	4	..	Tons. 17	1,895
									Supplied to Jail Department.	4	784		
		Babul firewood ..	..	..	172	..	172	..	Sold	172	..	..	..
					No.		No.			No.			
		Mango fruits ..	..	..	195	..	195	..	Do.	195	..	..	..
		Wax	..	..	..	1 oz.	..	1 oz.		..	..	..	1 oz.
					Tons.		Tons.			Tons.			
	VII. Vridhá-chalam.	Velvelam stripped firewood.	..	..	51	..	51	..	Do.	51	..	..	..
		Velvelam bark.	..	..	5	..	5	..	Do.	5	..	..	..
					No.	C. ft. Pts.	No.	C. ft. Pts.		No.	C. ft. Pts.		
		Kandan poles ..	..	..	25	34—8	25	34—8	Removed to Chidambaram depôt.	25	34—8	..	..
	Chidambaram.		Tons.	lb.	Tons.	lb.	Tons.	lb.		Tons.	lb.	Tons.	lb.
		Do. firewood.	398	1,889	639	889	1,038	538	Sold	107	1,839	241	2,038
									Remove to Chidambaram depôt.	687	1,739		
									Used by department ..	..	1,642		

(*b*) Outturn Tons 3 lb. 1,872.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Arcot—*cont.*	Chidambaram—*cont.*	Honey	..	..	..	lb. 1¼	..	lb. 1¼	Sold	..	lb. 1¼	..	..
		Other minor produce.	..	..	No. 8,000	..	No. 8,000	..	Removed to Chidambaram depôt.	No. 8,000	..	..	..
Salem.	Salem	Firewood	..	..	Tons. 57	lb. 1,680	Tons. 57	lb. 1,680	Sold	Tons. 57	lb. 1,680	..	..
		Bamboos	..	..	4	448	4	448	Do.	4	448	..	..
		Bilvaram	..	..	No. 28	C. ft. Pts. 239—4	No. 28	C. ft. Pts. 239—4	Removed to sale depôt.	No. 28	C. ft. Pts. 239—4	..	..
		Teak	..	..	3	7—1	3	7—1	Do.	3	7—1	..	..
		Junglewood	..	..	313	222—8	313	222—8	Do.	313	222—8	..	..
		Miscellaneous timber.	..	..	653	732—3	653	732—3	Do.	653	732—3	..	..
	Hosúr	Firewood	..	..	Tons. 12	lb. 840	Tons. 12	lb. 840	Do.	Tons. 12	lb. 840	..	..
		Bamboos (1,200)	..	..	7	..	7	..	Do.	7	..	..	..
		Sandalword roots	..	..	..	934½	..	934½	Do.	..	934½	..	..
		Do. billets	..	..	..	1785	..	1,785	Do.	..	1,785	..	..
		Do. chips	..	..	..	192½	..	192½	Do.	..	192½	..	..
Trichinopoly.	Trichinopoly.	Timber	..	..	..	C. ft. 70	..	C. ft. 70	Sold	..	C. ft. 70	..	..
		Firewood	..	..	Tons. 120	lb. 224	Tons. 120	lb. 224	Sold to South Indian Railway.	Tons. 100	..	Tons. 12	lb. 224
									Do. in retail	8	..		
	Kulitalai.	Miscellaneous trees.	..	..	No. 21	..	No. 21	..	Do.	No. 21	..	..	..
		Firewood	Tons. 218	lb. 1,084	Tons. 2,643	lb. 851	Tons. 2,858	lb. 1,935	Carted to Trichinopoly depôt.	Tons. 216	lb. 1,344	..	..
									Sold to South Indian Railway.	2,243	1,487		
									Do. in retail	398	1,344		
		Bamboos	..	..	No. 37	..	No. 37	..	Do.	No. 37	..	..	..
	Udayárpalaiyam.	Firewood	..	..	Tons. 1,081	lb. 1,297	Tons. 1,081	lb. 1,297	Carted to Tiruvádi depôt.	Tons. 369	lb. 1,297	..	..
					No. 12	..	No. 12	..	Carted Kumbakónam depôt.	712	..		
									Sold	No. 12	..		

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Trichinopoly—*cont.*	Musiri ..	Charcoal	..	..	Tons. 1	lb. 224	Tons. 1	lb. 224	Sold	Tons. 1	lb. 224	..	..
		Vembadam bark ..	..	..	1,269½ measures.	..	1269½ measures.	..	..	..	..	1,269½ measures	..
	Perambalúr ..	Gallnuts	..	..	800 ,,	..	800 ,,	..	..	..	..	800 ,,	..
		Do.	..	..	752 ,,	..	752 ,,	..	..	..	..	752 ,,	..
Tanjore.	Northern range, Vettangudi forest.	Firewood	..	..	Tons. 115	lb. 1,120	Tons. 115	lb. 1,120	Sold	Tons. 111	lb. 1,120	Tons. 4	lb. ..
North Coimbatore.	Kóllegal ..	Blackwood	..	..	2 pieces.	..	2 pieces.	..	Sold	2 pieces.	..	..	..
South Coimbatore.	I. Tunakadavu range.	Teak	No. 443	C. ft. 20,077	No. 497	C. ft. 20,649	No. 940	C. ft. 40,871	Carted to Vellarugu ..	No. 665	C. ft. 26,514	No. 261	C. ft. 13,631
					Excess by measurement.	145			Do. Venthamudi ..	14	726		
		Teak rafters ..	..	..	(*e*)371	4,074	371	4,074	Do. Vellarugu ..	184	1,975		
									Do. Coimbatore ..	45	439	..	..
									Do. Pollâchi ..	142	1,660		
		Rosewood rafters ..	..	..	5	72	5	72	Do. do.	5	72	..	..
		Miscellaneous trees .	..	..	148	3,960	148	3,960	Do. do.	85	2,311		
									Do. Adivaram ..	63	1,649	..	..
						lb.		lb.			lb.		lb.
		Cardamoms	..	..	..	1,426$\frac{41}{64}$	..	1,426$\frac{41}{64}$	Removed to sale depôt.	..	1,424$\frac{32}{64}$	..	2$\frac{11}{32}$
		Honey	..	..	3,109 measures.	..	3,109 measures.	..	Do. ..	3,109 measures.	..	..	..
		Rattans (1st, 2nd and 3rd sort).	..	..	No. 25,310	..	No. 25,310	..	Do. ..	No. 25,135	..	No. 175	..
					Tons.	lb.	Tons	lb.		Tons.	lb.	Tons.	lb.
		Elephant tusk ..	..	..	..	3½	..	3½	Do. ..	..	3½	..	..
		Seakoy	..	..	2	957½	2	957½	Do. ..	..	187½	2	770
		Dammer (1st and 2nd sort). ..	..	..	3	1,551⅛	3	1,551⅛	Do. ..	3	1,370⅝	..	181¼
		Do.	..	..	..	(*d*) 1,778⅛	...	1,778⅛	Do. ..	..	1,778⅛	..	..
		Wax	..	..	1	2,148$\frac{9}{32}$	1	2,148$\frac{9}{32}$	Do. ..	1	2,148$\frac{9}{32}$	..	..
		Turmeric	..	..	..	643¾	..	643¾	Do. ..	..	643¾	..	..
		Mattipal	..	..	..	57$\frac{7}{64}$	..	57$\frac{7}{64}$	Do. ..	..	57$\frac{7}{64}$	..	..
		Deer horns	..	..	..	216$\frac{13}{32}$	..	216$\frac{13}{32}$	Do. ..	..	216$\frac{13}{32}$	..	..
		Pepper	..	..	..	86$\frac{47}{48}$	..	86$\frac{47}{48}$	Do. ..	..	85$\frac{47}{48}$	..	1$\frac{47}{48}$

(*e*) Of this, 154 are from form No. 68 and the remainder from wind fallen trees.

(*d*) Collected in previous year and omitted from those years returns.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Coimbatore—*cont.*	II. Pollâchi range.	Teak	..	..	No. 115	C. ft. 1,772	No. 115	C. ft. 1,772	Carted to Anaimalai depôt.	No. 115	C. ft. 1,772	..	..
		Rosewood	..	..	17	248	17	248	Do. ..	17	248	..	..
		Vengai	..	..	1	18	1	18	Do. ..	1	18	..	..
		Minor produce ..	..	..	..	lb. 750	..	lb. 750	Sold	..	lb. 750	..	..
		Cardamoms	..	..	..	712½	..	712½	Removed to sale depôt.	..	712½	..	..
	III. Punachi range.	Honey	..	..	233½ measures.	..	233½ measures.	..	Do. ..	233½ measures.	..	..	..
		Rattans (1st and 2nd sort).	..	..	No. 4,025	..	No. 4,025	..	Do. ..	No. 4,025	..	..	..
		Seakoy	..	..	Tons. 1	lb. 135	Tons 1	lb. 135	Do. ..	Tons. 1	lb. 135	Tons. ..	lb. ..
		Dammer (2nd and 3rd sort).	..	..	2	288¾	2	288¾	Do. ..	2	288¾	..	..
		Wax	..	..	..	940⅝	..	940⅝	Do. ..	..	940⅝	..	..
		Mattipal	..	..	..	6 7/11	..	6 7/11	Do. ..	..	6 7/11	..	..
		Deer horns	..	..	..	33 19/22	..	33 19/22	Do. ..	..	33 19/22	..	..
		Soap beans	..	..	..	900	..	900	Do. ..	..	900	..	..
		Gallnuts	..	..	19	1,757½	19	1,757½	Do. ..	18	1,007½	1	750
		Mustard	..	..	..	75	..	75	Do. ..	..	75	..	..
		Pepper	..	..	..	175	..	175	Do. ..	..	175	..	..
Madura.	I. Range ..	Teak	No. ..	C. ft. ..	Logs, scantlings. 9—54	C. ft. cts. 79—99	Logs, scantlings. 9—54	C. ft. cts. 79—99	Sold	Logs, scantlings. 9—35	C. ft. cts. 61—09	Logs, scantlings. 0—19	C. ft. cts. 18—90
	Vannatiparai.	Blackwood	..	..	54—39	411—27	54—39	411—27	Do. ..	54—22	394—97	0—17	16—30
		Vengai	..	..	43—434	531—31	43—434	531—31	Do. ..	43—392	484—92	0—42	46—39
		Miscellaneous timber	..	..	3	44—53	3	44—53	Do. ..	3	44—53	..	..
	Pambar ..	Vengai	..	..	179	162	179	162	Do. ..	179	162	..	..
	Sengalvaraiar ..	Do.	..	..	3—428	357—95	3—428	357—95	Do. ..	3—428	357—95	..	..
	Pumbarai Vilpati.	Do.	6	276	13—0	110 7/12	19—0	386 7/12	Do. ..	11—0	275⅝	8—0	110⅝
	Perumalmalai ..	Do.	..	..	31—0	502⅜ C. ft. 131¼ Sq. ft.	31—0 ..	502⅜ C. ft. 131¼ Sq. ft.	Do. ..	16—0	348 222/225 45½ Sq. ft.	15—0	154 11/144 85½ Sq. ft.
	Gundan shola.	Vagai and Naval ..	3	160	27—0	91	30	251—0	Do. ..	14½	241⅝	15½	9⅝ C. ft.
		Vengai plank ..	..	229 Sq. ft.	..	1,386 Sq. ft.	..	1,615 Sq. ft.	Do. ..	..	824⅜ Sq. ft.	..	790¼ Sq. ft.
		Firewood	..	..	Tons. 369	lb. 1,115	Tons. 369	lb. 1,115	Transferred to depôt ..	Tons. 369	lb. 1,115	Tons. ..	lb. ..
	Kodaikânal shola.	Do.	..	..	4	615	4	615	Do. ..	4	615	..	..
	V. Madura range.	Do.	..	..	294	1,129	294	1,120	Sold	132	1,512	161	1,848

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
Tinnevelly.	Southern range Pambanar forest.	Kongu logs ..	No. 1,468	C. ft. 2,300	No. 3,532	C. ft. 3,762	No. 5,000	C. ft. 6,062	Transferred to Kariar forest depôt and sold.	No. 2,169	C. ft. 2,667	No.	C. ft.
									Do. Ambásamudram depôt.	361	565	(e)1,130	1,076
									Sold	746	853		
									Used by department ..	594	881		
		Vengai logs ..	..	..	4	7	4	7	Transferred to Kariar forest depot.	4	7	..	..
		Miscellaneous logs ..	..	..	15 / No. 22	21 lbs.	15 / No. 22	21 lbs.	Do. ..	15	21 lb.	..	..
					Tons.		Tons.		Do. ..	No. 22 Tons.		Tons.	lb.
	Kusavampalli forest.	Bamboo pattais ..	..	..	12	1,908	12	1,908	Transferred to Kariar forest depot and sold.	2	1,120		
									Do. Ambásamudram sale depot.	1	2,109	2	490
									Do. Tinnevelly do. ..	6	336		
									Used by department ..	..	93		
		Minor produce ..	..	..	..	1,807	..	1,807	....	..	..	..	1,807
	Mandamthorai forest.	Firewood ..	..	..	87	1,120	87	1,120	Sold	87	1,120	..	..
		Charcoal	..	..	30	1,645	30	1,645	Do.	30	1,645	..	..
	Central range Vallam hills.	Miscellaneous pieces.	..	..	No. 264	..	No. 264	..	Do.	No. 264	..	..	..
North Malabar.	Chedleth, Kudrakot and Padri ranges.	Teakwood	..	C. ft. 97,722	..	C. ft. 8,263	..	C. ft. 1,05,985	Sold in forest depots ..	..	C ft. 38,296	..	C. ft. 67,689
		Blackwood	..	11,984	..	5,679	..	17,663	Do. ..	..	13,709	..	3,954
		Vengai	..	52	..	..	..	52	....	..	..	..	52
		Miscellaneous timber.	..	..	..	663 lb.	..	663 lb.	Sold	..	663 lb.	..	.. lb.
		Wax	..	70	..	50	..	120	Sold at Manantoddy ..	..	92	..	20
									Used by department ..	..	8		
		Honey	..	..	..	120	..	120	Sold at Manantoddy ..	..	120	..	..
South Malabar.	Nilambúr ..	Teak	..	..	No. 5	C. ft. ..	No. 5	C. ft. ..	....	No. ..	C. ft. ..	No. 5	..
		Do.	..	..	16	478	16	478	Used by department ..	16	478	..	..
		Blackwood	..	..	157	..	157	..	....	..	..	157	..
		Do.	..	..	1	17	1	17	Carted to sale depot ..	1	17	..	..
		Miscellaneous timber.	..	..	1,884	..	1,884	..	....	..	..	1,884	..
		Do. ..	..	..	25	369	25	369	Carted to sale depot ..	25	369	..	..
	Pálghat ..	Blackwood ..	..	..	3	42	3	42	Sold	3	41½	..	..
									Difference on sale measurement.	..	½		

(e) Of this, 371—667 C. ft. are in Kariar forest depot.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
South Malabar—*cont.*	Pálghat—*cont.* ..	Miscellaneous timber.	No. 9	C. ft. 586	No. 298	C. ft. 11,617½	No. 307	C. ft. 12,203½	Sold	No. 299	C. ft. 11,692½	No. 8	C. ft. 508
									Difference in sale measurement.	..	3½		
	Panangod plantations.	Teak saplings ..	13,124	15,748	15,111	18,133	28,235	33,881	Taken to Kallai sale depôt.	8,505	10,206	19,730	23,675
				Tons.		Tons.		Tons.			Tons.		
		Bamboos	327	7	7,640	153	7,967	160	Do. ..	6,645	133	191	Tons. 4
									Used by department ..	788	16		
									Sold	340	7		
									Lost in transit to Kallai.	3	..		
			Tons.	lb.			Tons.	lb.		Tons.	lb.		
		Sappan dye-wood ..	2	395	..	..	2	395	Sold	2	395	..	..
		Kariyas	..	..	No. 254	= Tons. 5	No. 254	= Tons. 5	Taken to Kallai depôt.	No. 254	= Tons. 5	..	..
South Canara.	Condapur .. range.	Rosewood	No. 107	C. ft. 1,776	No. 22	C. ft. pts. 374—1	No. 129	C. ft. pts. 2,150—1	Sold	No. 96	C. ft. pts. 1,261—7	No. 33	C. ft pts. 888—6
		Vengai	2	79	..	..	2	79	Do.	1	43	1	36
		Miscellaneous ..	386	11,426	96	2,175	482	13,601	Do.	364	10,948½	118	2,652½
	Udipi range.	Do. ..	51	1,525	..	..	51	1,525	Burnt 1	2	42	49	1,483
									Lost by contractor 1.				
	Uppinangadi.	Rosewood	15	289	5	65—4	20	354—4	To Mangalore depôt ..	18	272	2	82—4
		Véngai	4	134—4	4	98—5	8	232—9	Do. ..	7	177—1	1	55—8
		Miscellaneous ..	135	4,468—6	269	6,049—9	404	10,518—5	Do. ..	217	5,458—1	187	5,060—4
	Kasaragód ..	Teak poles	..	..	150	..	150	..	Sold	150	..	..	..
					Tons.	lb.	Tons.	lb.		Tons.	lb.		lb.
	Condapur ..	Charcoal	..	..	..	840	..	840	Do.	..	728	..	112
	Udipi ..	Firewood	..	..	200	..	200	..	Do.	200	..	..	..
		Bamboos	..	..	No. 2,500	..	No. 2,500	..	....	..	..	No 2,500	..
					Tons.	lb.	Tons.	lb.		Tons.	lb.	Tons.	lb.
	Mangalore ..	Firewood ..	113 poles= Ts. 33—1,160	..	122	2,172	156	1,092	Sold	156	1,092	..	..
		Charcoal	1	700	1	264	2	964	..	..	..	2	964
	Condapur ..	Minor produce ..	..	..	142	1,870	142	1,870	Sold	124	425	18	1,445
	Udipi	Do. ..	..	..	27	1,201½	27	1,201½	Do.	11	1,653½	10	1,482
									Sent to Condapur ..	5	306		
	Mangalore ..	Do. ..	..	..	50	1,023	50	1,023	Sold	45	1,067	4	2,196
	Uppinangadi ..	Do. ..	..	840	39	1,259½	39	2,099½	Do.	38	1,637½	1	462
	Kásaragód ..	Do. ..	..	..	..	631½	..	631½	Do.	..	177½	..	454

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.	
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.
		Grand Total.											
		Teak	443	117,799	1,016—54	35,468	1,459—54	153,267	To depôt	1,168	33,093—1	266—19	81,838—11
									Sold	9—35	38,357—1		
									Otherwise disposed of.	16	478		
		Do. poles	..	..	No. 150	17 C. ft.	No. 150	17 C. ft.	Sold	No. 150	17 C. ft.	..	..
		Teak saplings ..	13,124	15,748	15,111	18,133	28,235	33,881	To depôt	8,505	10,206	19,730	23,675
		Blackwood	122	14,049	107—39	6,908—8	229—39	20,957—8	Do.	41	609—7	35—17	4,940—5
									Sold	153—22	15,407—6		
		Do.	..	..	159	2,385	159	2,385	Do.	2	30	157	2,355
			No.	C. ft.	No.	C. ft.	No.	C. ft.		No.	C. ft.	No.	C. ft.
		Vengai	12	541—4	520—862	2,215	532—862	2,756—4	To depôt	244	611—4	25—42	454—7
									Sold	263	1,690—5		
		Do. planks ..	229 Sq. ft.	=19C. ft.	1,517¼ Sq ft.	= 126 C. ft	1,746¼ Sq. ft.	= 145 C. ft.	Do.	870⅛ Sq ft.	= 73 C ft.	876¼ Sq ft.	= 72 C. ft.
									Sold	5,605	* 30,624—2		
		Miscellaneous timber	2,052	20,465—3	8,478	36,635—2	10,530	57,100—6	Depot	2,550	13,827—3	1,558	11,270
					No.	C. ft	No.	C. ft	Otherwise	817	1,379—1		
		Do. ..	..	..	2,225	22,250	2,225	22,250	Sold	No. 341	3,410 C ft.	1,884	18,840
		Junglewood ..	..	..	313	222—8	313	222—8	To depot	313	222—8	..	..
		Redwood roots ..	..	..	Tons. 311	..	Tons. 311	..	Do.	Tons. 311	..	..	..
			Tons	lb.	Tons.		Tons.			Tons	lb.	Tons.	lb.
			772	373		lb.			Sold	† 7,132	915		
		Firewood	113 poles	= 33 Ts. 1,160 lb.	9364	1,202	10,170	495	Depot	2,568	707	459	561
									Otherwise disposed of.	10	552		
					No.		No.						
		Do.	..	..	441	= Tons. 56	441	= Tons. 56	Sold	No. 187	= Tons 51	..	..
									To depot	,, 254	= ,, 5		
		Bamboos	No. 327	= Ts. 7	No. 10,713	= Tons 214	No. 11,040	= Tons. 221	Sold	No. 913	= Tons 18	No.	
									To depôt	,, 6,645	= ,, 133	2,691 =	Tons. 54
									Otherwise disposed of.	,, 791	= ,, 16		
			Tons	lb.	Tons	lb.	Tons	lb.		Tons	lb.	Tons.	lb.
		Bamboos	..	..	24	228	24	228	Sold	6	1,680		
									To depôt	15	205	2	490
									Otherwise disposed of.	..	93		
		Sandalwood ..	..	..	27	783	27	783	To depôt	27	748		
									Sold	..	35	..	..
									Sold	248	602		
		Minor produce ..	2	1,305	321	1,524⅝	324	589⅝	To depôt	30	1,302⅝	40	611
									Otherwise disposed of.	5	314		
					Tons lb		Tons lb.				Tons. lb.		Tons lb.
		Do.	..	..	6,164 measures	= 68—1,780	6,164 measures	= 68—1,780	To depôt	3,342½ measures	= 37—682	2,821¼ measures.	= 31-1,098
									Sold	No. 195		No.	Ton. ¼
		Do. ..	..	..	No 37,530	= Tons 31	No. 37,530	= Tons 31	Depot	,, 37,166	= Tons 30¾	175 =	
			No.	C. ft.	No.	C. ft.	No.	C. ft.		No.	C. ft.	No.	C. ft.

* Includes 152 C. ft. sold as firewood (3 Tons 1,872 lb. in South Arcot). † Of this, 64 Tons 2,209 lb was converted into charcoal (Tons 13—276 lb.) and sold.

Add 3 Tons—1872 lb. the outturn of timber sold as firewood in South Arcot.

Districtwar Abstract of Form No. 69 showing the collection of timber, &c., in the Southern Circle during the year 1887-88.

—	Timbers. Teak.	Black or rose-wood.	Vengai.	Other timbers.	Total.	Equivalent in tons.	Red-wood roots.	Total timber.	Firewood and charcoal.	Bamboos.	Sandal-wood.	Minor produce.	Total of all produce.	Remarks.
	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	
Stock of the Circle at beginning of the year.	117,799 / 15,748	14,049	541 / 19	20,465	168,621	4,216	..	4,216	805	7	..	2	5,030	*a* Saplings *b* Poles.
Chingleput	..	..	..	..	..	..	..	..	293	..	..	..	293	*c* Estimate of 157 poles.
North Arcot	..	..	..	*e* 310	310	8	311	319	*k* 1,413 / 22	*n* 10	26	..	1,790	*d* Estimate of 1,517 planks.
South Arcot	..	..	427	*f* 6,870	7,297	182	..	182	2,516	*o* ½	..	26 / *s* 7	2,731½	*e* Estimate of 31 logs.
Salem	7	..	..	1,194	1,201	30	..	30	70	11	1	..	112	*f* Includes 30 cubic feet estimate of 3 logs.
Trichinopoly	..	..	..	*g* 280	280	7	..	7	*l* 3,846 / 2	*p* ½	..	*t* 32	3,887½	*g* Includes 210 cubic feet of 21 scantlings.
Tanjore	..	..	..	..	..	..	..	..	116	..	..	..	116	
North Coimbatore	..	30	..	..	30	1	..	1	..	..	..	..	1	*h* Includes 2,860 cubic feet of 286 scantlings.
South „	26,640	320	18	3,960	30,938	774	.	774	..	..	..	35 / *u* 24 / *v* 37	870	
Madura	80	411	1,665 / *d* 126	136	2,418	61	..	61	668	..	..	..	₹29	*i* Includes 19,090 cubic feet of 1,909 scantlings.
Tinnevelly	..	..	7	*h* 6,643	6,650	166	..	166	118	13	..	1	298	
North Malabar	8,263	5,679	..	663	14,605	365	..	365	..	..	..	..	365	*k* Estimate of 175 poles
South „	478 / *a* 18,133	59 / *c* 2,355	..	*i* 30,827	51,852	1,296	..	1,296	*m* 32	*q* 153	..	..	1,481	*l* Estimate of 12 poles.
South Canara	*b* 17	439	98	8,225	8,779	219	..	219	325	*r* 50	..	260	854	*m* Do. of 254 „
Collection during the year for the Circle.	53,618	9,293	2,341	59,108	124,360	3,109	311	3,420	9,421	238	27	422	13,528	*n* Do. of 500 bamboos.
Total ..	187,165	23,342	2,901	79,573	292,981	7,325	311	7,636	10,226	245	27	424	18,558	*o* Estimate of 36 „ *p* Do. of 37 „ *q* Do. of 7,640 „ *r* Do. of 2,500 „
Sold in the Forests	38,374	15,437	1,763	34,034	89,608	2,240	..	2,240	7,184	25	..	248	9,697	*s* Do. of No. 8191.
Otherwise disposed of	478	..	..	1,379	1,857	47	..	47	10	16	..	5	78	
Removed to sale depots	43,299	609	611	14,050	58,569	1,464	311	1,775	2,573	148	27	99	4,622	*t* Estimate of 2,822 measures.
Total disposals ..	82,151	16,046	2,374	49,463	150,034	3,751	311	4,062	9,767	189	27	352	14,397	*u* Estimate of No. 29,335.
Stock in the forest on 31st March 1888.	105,014	7,296	527	30,110	142,947	3,574	..	3,574	459	56	..	72	4,161	*v* Estimate of 3,342 measures.

ANNUAL FORM

Forest Department,

RECEIPTS and Issues of Timber and other

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	ON HAND, 1st APRIL 1887.		RECEIVED DURING THE YEAR.		
				Number or quantity.	Cubic feet.	Whence received.	Number or quantity.	Cubic feet.
Chingleput.	..	..	..					
North Arcot.	..	Mámandúr depôt.	Redwood roots and stumps.	Tons. lb. 15 0	..	Mámandúr forest.	Tons. lb. 111 0	..
	..	Nagapatla depôt.	Do. ..	..	..	Chamala forest.	200 0	..
	..	Vellore jail depôt.	Babul wood ..	191 948	..	Buttur tank bed.	117 104	..
			Casuarina wood ..	..	..	Kilminnel plantation.	78 1,493	
	..	Vellore sandalwood depôt.	Sandalwood roots.	6 430	..	Javadi hills.	26 76	..
South Arcot.	I. Tiruvannámalai.	..	Vengai poles ..	..	C. ft. ..	Chengam circle forest.	No. 99	C. ft. 199 8
						Chekadi ..	137	216 7
		..	Acha logs ..	..	..	Do. ..	3	29 0
		..	Mango wood logs..	..	..	Do. ..	7	76 0
		..	Do. poles..	..	..	Do. ..	11	79 2
		..	Miscellaneous timber poles.	..	..	Chengam ..	704	1,608 3
						Chekadi ..	368	675 6
		..	Firewood ..	Tons. lb. ..	..	..	Tons. lb. 0 1,120	..
		..	Sandalwood billets.	2 222	..	..	..	..
		..	Gallnuts ..	..	..	Tiruvannámalai taluk forest.	0 560	..
		..	Honey	0 11	..	Do. ..	0 74½	..
		..	Wax	..	..	Do. ..	0 5	..
		..	Other minor produce.	1 0	..	..	..	..
	II. Tindivanam Range.	..	Vengai poles ..	..	..	Tiruvannámalai taluk forest.	No. 8	13 6
		..	Acha	..	..	Do. ..	1	9 11
		..	Miscellaneous timber poles.	..	..	..	273	722 9
		..	Sandalwood billets	Tons. lb. ..	..	Tiruvannámalai depôt.	Tons. lb. 1 222	..
		..	Honey	..	..	Tindivanam forest.	0 8	..
		..	Wax	..	..	Do. ..	0 4	..
	IV. Cuddalore.	..	Kandan poles ..	..	..	Pichavaram forest.	No. 25	34 8
		..	Do. firewood..	..	..	Do. ..	Tons. lb. 687 1,739	..
		..	Sandalwood billets.	368½	..	Excess found on reweighing.	0 18	..
		..	Minor produce ..	..	..	Pichavaram.	No. 8,000	..
	Headquarter office.	..	Sandalwood billets.	0 44	..	..	..	..

No. 70.

Madras, Southern Circle

Produce in Sale Depôts during the year 1887-88.

Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
		Nil.					
Tons. lb	C. ft.		Tons. lb.	C. ft.	Tons. lb.	C. ft.	
126 0	..	..	..	..	126 0	..	
200 0	..	..	..	..	200 0	..	
387 305	..	Sold and supplied to Central jail.	133 1,297¼	..	166 319¼	..	
		Do. ..	19 1,099¼				
		Sold and supplied to manufactory.	67 2,069				
32 506	..	..	..	..	32 506	..	
No.	C. ft.		No.	C ft.	No.	C. ft.	
236	416 3	To Tindivanam depôt.	8	13 6	..	..	
		Sold	228	402 9			
3	29 0	Do.	2	19 1	..	..	
		To Tindivanam depôt.	1	9 11			
7	76 0	Sold	7	76 0	..	..	
11	79 2	To Tindivanam depôt.	5	54 3	6	24 11	
		Sold	803	1,609 3			
1,072	2,283 9	To Tindivanam depôt	268	668 6	..	..	
		Rejected ..	..	1 1			
		Used by department.	1	4 11			
Tons. lb			Tons. lb.		Tons. lb.		
0 1,120	..	Sold	0 1,120	..	..	..	
		Do.	0 270	..			
2 222	..	To Tindivanam depôt	1 222	..	0 1,949	..	
		Chengam forest depot.	0 21	..			
0 560	..	Sold	0 560	..	..	..	
0 85½	..	Do.	0 85½	..	..	..	
0 5	..	Do.	0 5	..	..	..	
1 0	..	Do.	0 1,666	..	..	..	
		Used by department.	0 574	..			
No.			No.		No.		
8	13 6	Sold	8	13 6	..	..	
1	9 11	Do.	1	9 11	..	..	
273	722 9	Do.	273	722 9	..	..	
Tons. lb			Tons. lb.		Tons. lb.		
1 222	..	..	..	..	1 222	..	
0 8	..	Sold	0 8	..	..	..	
0 4	..	..	..	..	0 4	..	
No.			No.		No.		
25	34 8	Sold	25	34 8	..	..	
Tons. lb.			Tons. lb.		Tons. lb.		
687 1,739	..	Do.	623 217	..	5 1,022	..	
		Drisge ..	52 268	..			
		Used by department	7 234	..			
0 386½	..	Sold	0 386½	..	..	..	
No.			No				
8,000	..	Do.	8,000	..	..	..	
Tns. 0 lb. 44	..	..	..	..	0 44	..	

Receipts and Issues of Timber and other Produce

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887. Number or quantity.	On hand, 1st April 1887. Cubic feet.	Received during the year. Whence received.	Received during the year. Number or quantity.	Received during the year. Cubic feet.
				No.	C. ft.		No.	C. ft.
Salem.	..	Pennagaram.	Acha	21	25 5	..	..	..
			Vengai	3	5 10	..	..	..
				lb.				
			Sandalwood ..	364	..	..	..	..
	..	Denkanikóta.	Bilvaram ..	..	..	..	28	239 4
			Teak ..	..	..	..	3	7 1
			Junglewood ..	..	..	..	313	222 8
			Miscellaneous timber.	..	..	..	653	732 3
				Tons. lb.			Tons. lb.	
			Firewood ..	..	..	..	12 840	..
			Sandalwood ..	2 1,071	..	..	1 672	..
			Bamboos (1,200)..	..	..	..	7 0	..
Trichinopoly.	..	Trichinopoly.	Firewood.. ..	Tons. lb. 141 1,344	..	..	Tons. lb. 216 1,344	..
	..	Tiruvádi ..	Do.	30 1,839	..	..	369 1,297	..
	..	Kumbakónam.	Do.	39 1,504	..	..	712 0	..
Tanjore.	..	..	..					
North Coimbatore.	..	Satyamangalam.	Sandalwood ..	Tons. lb. 0 1,681½	..	..	..	..
South Coimbatore.	..	Coimbatore depôt.	Teak logs ..	No. 118	C. ft. 3,546 0	Vellaruguadivaram.	No. 431	C. ft. 17,520 0
			Rosewood.. ..	6	163 0	..	..	..
			Teak rafters ..	..	..	I. Range..	45	439 0
			Rosewood.. ..	144	2,139 0	II. Do. ..	17	248 0
				..	..	Excess measurement of old logs.	..	500 0
	..	Anaimalai depôt.	Teak logs ..	..	..	II. Range..	115	1,772 0
			Vengai	..	..	Do. ..	1	18 0
			Teak logs ..	230	8,010 0	I. Range ..	665	26,514 0
	..	Vellaruguadivaram.	Teak rafters ..	..	..	Do. ..	184	1,975 0
			Miscellaneous logs	..	..	Do. ..	63	1,649 0
			Teak logs ..	..	..	Vellaruguadivaram.	26	1,009 0
			Teak rafters ..	..	..	I. Range ..	142	1,660 0
	..	Pollâchi depôt.	Dô. ..	..	..	Vellaruguadivaram.	171	1,801 0
			Rosewood rafters.	..	..	I. Range ..	5	72 0
						Do. ..	85	2,311 0
			Miscellaneous logs.	..	..	Excess on remeasurement.	..	3 0
	..	Venthamudi.	Teak logs ..	..	..	I. Range ..	14	726 0
							Tons. lb.	
			Dammer	..	..	Do. ..	0 1,778⅛	..
	..	Coimbatore.	Cardamoms ..	..	..	I. and III. Ranges.	0 2,136⅞	..
			Honey	..	..	Do. ..	* 37 682½	..
							No.	
			Rattans (1st, 2nd and 3rd sort).	..	..	Do. ..	29,160	..
							Tons. lb	
			Elephant tusk ..	..	..	Do. ..	0 3½	..

in Sale Depôts during the year 1887-88—*cont.*

Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
No.	C. ft		No.	C. ft.	No.	C. ft.	
21	25 5	Sold	19	22 4	2	3 1	
3	5 10	Do.	1	1 11	2	3 11	
lb.			lb.				
364	..	Do.	364	..	..	..	
28	239 4	Do.	28	239 4	..	..	
3	7 1	Do.	1	2 7	2	4 4	
313	222 8	Do.	313	222 8	..	..	
653	732 3	Do.	653	732 3	..	..	
Tons. lb.			Tons. lb.		Tons. lb.		
12 840	..	Do.	12 840	..	..	..	
3 1,743	..	Do.	2 1,071	..	1 672	..	
7 0	..	Do.	7 0	..	..	..	
Tons. lb.			Tons. lb.		Tons. lb.		
358 448	..	Sold	358 448	..	..	..	
399 2,136	..	Do.	329 1,344	..	70 1,792	..	
751 1,504	..	Do.	742 1,056	..	9 448	..	

Nil.

Tons. lb. 0 1,681½	..	..	..	..	Tons. lb. 0 1,681½	..
No.	C. ft.		No.	C. ft.	No.	C. ft.
549	21,066 0	Sold	233	9,419 0	316	11,647 0
6	163 0	Do.	6	163 0	..	..
45	439 0	Do.	25	245 0	20	194 0
161	2,887 0	Sold	161	2,867 0	..	..
		Wastage ..	..	20 0		
115	1,772 0	Sold	115	1,692 0	..	..
		Wastage ..	..	80 0		
1	18 0	Sold	1	18 0	..	..
895	34,524 0	Carted to Coimbatore.	431	17,520 0	434	15,835 0
		Carted to Pollâchi.	26	1,009 0		
		Sold	4	160 0		
184	1,975 0	Carted to Pollâchi.	171	1,801 0	..	..
		Sold	13	174 0		
63	1,649 0	Do.	63	1,649 0	..	..
26	1,009 0	..	..	..	26	1,009
142	1,660 0	Sold	63	794 0	250	2,664 0
171	1,801 0	Difference on remeasurement.	..	3 0		
5	72 0	Sold	5	72 0	..	..
85	2,314 0	Do.	85	2,314 0	..	..
14	726 0	..	..	..	14	726 0
Tons. lb.			Tons. lb.		Tons. lb.	
		Sold	0 1,673½	..		
		Wastage ..	0 10½	..		
0 1,778½	..	Written off, being mere dust.	0 93½	..	..	..
0 2,136½½	..	Sold	0 2,136½½	..	..	..
37 682½	..	Do.	37 682½	..	..	..
No. 29,160	..	Do.	No. 29,160	..	..	..
Tons. lb. 0 3½	..	Do.	Tons. lb. 0 3½	..	..	..

* The equivalent of 3,342½ measures.

Receipts and Issues of Timber and other Produce

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887. Number or quantity.	On hand, 1st April 1887. Cubic feet.	Received during the year. Whence received.	Received during the year. Number or quantity.	Received during the year. Cubic feet.
South Coimbatore—*cont.*	..	Coimbatore—*cont.*	Dammer (1st, 2nd and 3rd sort).	..	..	I and III Range.	Tons. lb. 5 1,659 3/8	C. ft. ..
			Wax	..	..	Do. ..	2 848 29/32	..
			Gallnuts	..	..	Do. ..	18 1,042 1/4	..
			Other minor produce.	..	..	Do. ..	2 275 35/48	..
Madura.	..	Kodaikánal firewood depôt.	Firewood	Tons. lb. 28 2,205	..	Gundan shola and other plantations.	Tons. lb. 373 1,730	..
			Collections of previous year omitted but now ordered to be included by the Examiner.	..	..	..	1 185	..
Tinnevelly.	South Range.	Ambásamudram depôt.	Kongu logs ..	No. 89	C. ft. 54	Pambar forest.	No. 361	C. ft. 565
			Miscellaneous pieces.	155	..	....	..	..
			Bamboo pattais ..	..	..	Kariar forest depôt.	Tons. lb. 1 2,109	..
						Tinnevelly depôt.	0 149	..
	Tinnevelly Sub-range.	Tinnevelly Cusba depôt.	Do. ..	..	..	Kariar forest depôt.	6 336	..
North Malabar.		..	..					*Nil*
South Malabar.	Nilambúr.	Panangod (clearing).	Teak	No. 97	C. ft. 1,549	..	No. ..	C. ft. ..
			Blackwood ..	3	52	From clearing.	1	17
			Miscellaneous logs.	193	2,372	Do. ..	2	24
			Miscellaneous poles.	104	302	..	..	..
		Ponangod (selection)	Teak	228	2,352	..	..	..
			Blackwood ..	21	205	..	..	..
			Miscellaneous logs.	188	2,633	..	22	330
		Pokod forest depôt	Teak	44	832	..	..	..
			Blackwood ..	87	1,239	..	..	..
			Miscellaneous logs.	112	1,578	..	1	15
		Kallai depôt.	Miscellaneous timber.	20	..	..	..	..
			Teak saplings, superior, large.	2,829	31,739	..	..	..
			Do. small ..	2,709		..	4	10,206
			Do. classified.	47,019		..	8,501	

in Sale Depôts during the year 1887-88—*cont.*

Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
Number or quantity.	Cubic feet.	How disposed of.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	
Tons. lb.	C. ft.		Tons. lb.	C. ft.	Tons. lb.	C. ft.	
5 1,659⅜	..	Sold	5 1,562½	..	..	..	
		Wastage ..	0 96⅞	..			
2 848⅜	..	Wastage ..	2 848⅜	..	..	..	
18 1,042½	..	Sold	18 1,042½	..	..	..	
2 275⅝	..	Do.	2 275⅝	..	..	..	
Tons. lb.	C. ft.		Tons. lb.	C. ft.	Tons. lb.	C. ft.	
403 1,880	..	Sold	227 1,270	..	176 610	..	
No.	C. ft.		No.	C. ft.	No.	C. ft.	
450	619	Sold	399	577	14	18	
		Used by department.	37	24			
155	..	Sold	155	..	..	..	
Tons. lb.			Tons. lb.		Tons. lb.		
1 2,109	..	Sold	0 709	..	0 1,549	..	
0 149	..	Used by department.	1 0	..			
6 336	..	Sold	1 1,951	..	4 476	..	
		Transferred to Ambásamudram depôt.	0 149	..			
No.	C. ft.		No.	C. ft.	No.	C. ft.	
97	1,549	Sold	22	96	..	..	
		Used by department.	75	1,453			
4	69	Sold	3	52	..	..	
		Rejected ..	1	17			
195	2,396	Sold	188	2,372	..	..	
		Rejected ..	7	24			
104	302	Sold	104	302	..	..	
228	2,352	Sold	152	977	..	..	
		Used by department.	71	1,375			
		Rejected ..	5				
21	205	Sold	21	205	..	..	
210	2,963	Rejected ..	7	2,963	..	..	
		Sold	203				
44	832	Sold	22	265	..	..	
		Used by department.	22	567			
87	1,239	Sold	87	1,239	..	..	
113	1,593	Do.	113	1,593	..	..	
20	..	....	..	..	20	..	
2,829	11,316	Sold	* 1,181	5,639	1,648	5,677	* Of these, 574 saplings of 305 cubic feet were sold as firewood.
2,713	5,426	Do.	* 1,347	2,694	1,366	2,732	
55,520	25,203	Sold	* 41,862	17,909	13,645	7,294	
		Rejected ..	13				

Receipts and Issues of Timber and other Produce

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.		
				Number or quantity.	Cubic feet	Whence received.	Number or quantity.	Cubic feet.
South Malabar—*cont.*	Nilambúr—*cont.*	Kallai depôt—*cont.*	Bamboos (whole and pieces.)	No. 7,786 = 156 tons.		..	No. 6,645 = 133 tons.	
			Kariyas	,, 2,775 = 56 ,,		..	,, 264 = 5 ,,	
South Canara.	..	Mangalore.		No.	C. ft.		No.	C. ft.
			Rosewood.. ..	22	417	Uppinangadi range.	18	272 7
			Vengai	4	82	Do. ..	7	177 1
			Miscellaneous logs.	68	1,584	Do. ..	217	5,458 1
								GRAND
				No.	C. ft.		No.	C. ft.
			Teak	717	16,289	..	(a) 1,796	53,423
			Teak saplings ..	52,557 = 31,739 C. ft.		..	8,505 = 10,206 C. ft.	
			Rosewood ..	283	4,215	..	41	(d) 1,109 7
			Vengai	7	(b) 87 10	..	(c) 252	624 10
			Junglewood ..	..	..	..	313	222 8
			Miscellaneous timbers.	775	8,548	..	2,824	(e) 14,561
			Do. ..	No. 175 = 1,750 C. ft.		..	..	..
			Redwood roots ..	Tons. 15	..	..	Tons. 311	..
			Firewood and charcoal.	Tons. lb. 432 1,120	..	..	Tons. lb. 2,569 892	..
			Do. ..	No. 2,775 = 56 tons.		..	No. 254 = 5 tons.	
			Bamboos	..	..	..	Tons. lb. 15 354	..
			Do.	No. 7,786 = 156 tons.		..	No. 6,645 = 133 tons.	
			Sandalwood roots and billets.	11 1,940¾	..	..	(f) 28 988	..
			Minor produce ..	1	11	..	(g) 68 167½	..
			Do. ..	..	..	..	No. 37,160 = 30¾ tons.	

in Sale Depôts during the year 1887-88—*cont.*

Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
Number or quantity.	Cubic feet.	How disposed of	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet	
No. 14,431 = 289 tons.		Sold	No. 14,074 = 282 tons.		..	..	
		Used by department.	,, 357 = 7 ,,				
,, 3,029 = 61 ,,		Sold as firewood	,, 2,993 = 60 ,,		No. 36 = 1 ton.		
No.	C ft		No.	C. ft.			
40	689 7	Sold	40	689 7	..	..	
11	259 1	Do.	11	259 1	..	..	
285	7,042 1	Sold	284	7,014 0	..	..	
		Carried away by tide and found by Port officer, Mangalore.	1	28 1			

TOTAL.

No.	C. ft.		No.	C. ft.	No.	C. ft.	
2,513	69,712	Sold	650	13,825	1,062	32,079	(a) Includes No. 628, C. ft 20,330, received from depôts in South Coimbatore.
		Sent to other depôts.	628	20,330			
		Otherwise disposed of.	173	3,478			
61,062	41,945	Sold	43,816		16,659	15,703	
		Do. as firewood.	574	25,242			
		Otherwise ..	13				
324	5,324 7	Sold	323	5,287 7	..	..	(d) Includes C. ft. 500, excess found on remeasurement of old stock in South Coimbatore.
		Otherwise ..	1	37 0			
259	712 8	Sold	249	695 3	2	3 11	(b) Of this, No. 4, C. ft. 8½, appeared as miscellaneous timber in previous year.
		Sent to other depôts.	8	13 6			
							(c) Includes No. 8, C. ft. 13-6, received from other depôts.
313	222 8	Sold	313	222 8	..	..	
3,599	23,109	Sold	3,250	22,248	22	46	(e) Includes C. ft. 733 received from other depôts.
		To other depôts.	274	733			
		Otherwise ..	53	82			
No. 175 = 1,750 C. ft. Tons.		Sold	No. 155 = 1,550 C. ft.		No. 20 = 200 C. ft. Tons.		
326	..	..	..	..	326	..	
			Tons. lb.		Tons. lb.		
Tons. lb.		Sold	(h)2,293 1,815	..			(h) Add 574 teak saplings sold as firewood.
3,001 2,012	..	Sold and supplied to jail.	220 2,225½	..	427 1,951½	..	
		Otherwise ..	59 500	..			
No. 3,029 = 61 tons.		Sold	No. 2,993 = 60 tons.		No. 36 = 1 ton.		
			Tons. lb		Tons. lb.		
Tons. lb.		Sold	9 420	..			
15 354	..	To other depôts.	0 149	..	4 2,025	..	
		Otherwise ..	1 0	..			
No. 14,431 = 289 tons.		Sold	No. 14,074 = 282 tons.		..	..	
		Otherwise ..	,, 357 = 7 ,,				
		Sold	2 2,091½	..			
40	688½	Transferred to other depôts.	1 222	..	36 594½	..	(f) Includes Ton. 1 lb 222, received from other depôts, and lb. 18, the excess found by remeasurement of old stock in South Arcot.
		Transferred to forest depôt.	0 21	..			
69	178½	Sold	68 1,735½	..	0 4	..	(g) Includes Ton. 37 lb. 682½, which is an equivalent of 4,342½ measures of honey in South Coimbatore district
		Otherwise ..	0 678½	..			
No. 37,160 = 30½ tons.		Sold	No. 37,160 = 30½ tons.		..	..	

Abstract of Form No. 70.

	Timber.								Firewood and charcoal.	Bamboos.	Sandal-wood.	Minor produce.	Total of all produce.	Remarks.
	Teak.	Black or rosewood.	Vengai.	Other timbers.	Total cubic feet.	Equivalent in tons.	Red-wood roots.	Total timber.						
	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	
Stock on 1st April 1887	16,289 / a 31,739	4,215	88	8,548 / b 1,750	62,629	1,566	15	1,581	432 / c 56	d 156	12	1	2,238	a Estimate of saplings. b Do. of No. 175. c Do. of ,, 2,775. d Do. of ,, 7,786. e Do. of ,, 8,505, saplings. f Excess found on re-weighing. g Collection of previous year included in the present returns. h Estimate of No. 254 i Do. of ,, 6,645, bamboos. k Estimate of No. 37,150. l Do. of saplings. m Do. of No. 16,659. n Do. of 155. o Do. of 20 p Do. of 2,993. q Do. of 36. r Do. of No. 14,074. s Do. of ,, 357. t Do. of ,, 37,160.
Received from Forests	33,093 / e 10,206	f 609 / 500	611	14,050	59,069	1,476	311	1,787	2,568 / g 1 / h 5	15 / i 133	27	k 68 / 31	4,635	
Received from other sale depôts.	20,330	..	13	733	21,076	527	..	527	..	..	1	..	528	
Total ..	111,657	5,324	712	25,081	142,774	3,569	326	3,895	3,062	304	40	100	7,401	
Sold from depôts ..	13,825 / l 26,242	5,287	695	22,470 / n 1,550	70,069	1,752	..	1,752	2,514 / p 60	r 282	3	t 69 / 31	4,720	
Otherwise disposed of ..	3,478	37	..	82	3,597	89	..	89	59	1 / s 7	..	..	156	
Removed to other sale depôts.	20,330	..	13	733	21,076	527	..	527	..	..	1	..	528	
Total ..	63,875	5,324	708	24,835	94,742	2,368	..	2,368	2,633	299	4	100	5,404	
Balance stock in depôts on 31st March 1888.	32,079 / m 15,703	..	4	46 / o 200	48,032	1,201	326	1,527	428 / q 1	5	36	..	1,997	

Annual Form No. 71.

Forest Department, Madras, Southern Circle.

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88.

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold locally.	TONS. LB.		RS. A. P.	RS. A. P.	RS. A. P.			
Chingleput	..	Kambakam hills.	I (*b*).	Fuel	7 0	..	1 8 0	10 8 0	10 8 0	..	..	
	..	Maiyur plantation.	Do.	Stumps	1 1,120	..	1 8 0	1 8 0	1 8 0	..	..	
	..		Do.	Casuarina	17 300	..	3 0 3	51 10 9	51 10 9	..	..	
	..	Madras	Do.	Firewood	199 2,239	..	At different rates.	513 11 6	513 11 6	..	..	
				Billets	13 0	..						
				Charcoal	13 276	..	Do. ..	280 13 4	280 13 4	..	..	
				Total of (*b*) ..	251 1,695	..	..	858 3 7	858 3 7	..	..	
				Sold locally.								
North Arcot.	..	Bolampatti tope ..	I (*a*).	Casuarina trees ..	No. 10	..	3 0 0	30 0 0	30 0 0	..	..	
	..	Elattur	Do.	Do. ..	,, 10	..	2 0 0	20 0 0	20 0 0	..	..	
	..	Do.	Do.	Do. ..	,, 5	..	3 0 0	15 0 0	15 0 0	..	..	
	..	Pudupalaiyam ..	Do.	Palmyra trees ..	,, 6	..	2 0 0	12 0 0	12 0 0	..	..	
				Total ..	..	..	..	77 0 0	77 0 0	..	..	
				Outstandings realised.	..	..	..	..	750 0 0	..	..	
				Total ..	..	..	..	..	827 0 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depot.	TONS. LB.		RS. A. P.	RS. A. P.	RS. A. P.			
North Arcot—*cont.*	..	Vellore Central Jail.	I (*b*).	Babul and casuarina wood.	220 2,225	..	3 4 0 per 1,000 lb.	1,608 12 7	1,498 5 11	..	..	
				Sold locally.								
	..	Tiruvallam plantation.	Do.	Casuarina wood ..	1,266 1,120	..	At different rates.	6,244 14 0	5,771 6 0	..	..	
			Do.	Casuarina trees ..	No. 70	..	1 8 0	105 0 0	105 0 0	..	..	
			Do.	Do. ..	,, 46	..	2 2 0 per ton.	97 12 0	97 12 0	..	..	
	..	Virinjipuram plantation.	Do.	Casuarina wood ..	Ton 1	..	5 8 0 per ton.	5 8 0	5 8 0	..	..	
			Do.	Casuarina branch wood.	..	lb. 1,120	2 8 0 per ton.	1 4 0	1 4 0	..	..	
			Do.	Do ..	,, 1	..	3 0 0 per ton.	3 0 0	3 0 0	..	..	
			Do.	Casuarina trees ..	No. 10	..	2 0 0 each.	20 0 0	20 0 0	..	..	
	..	Kilminnel plantation.	Do.	Casuarina wood ..	..	lb. 1,120	2 0 0 per ton.	1 0 0	1 0 0	..	..	
			Do.	Casuarina branch wood.	Tons 3	..	2 0 0 per ton.	6 0 0	6 0 0	..	..	
			Do.	Do. ..	,, 17	..	2 8 0 per ton.	42 8 0	42 8 0	..	..	
	..	Gazulamandiyam plantation.	Do.	Casuarina trees ..	No. 20	..	2 6 0 per ton.	47 8 0	47 8 0	..	..	
	..	Balampet tope ..	Do.	Casuarina branch wood.	Tons 3	..	Highest bid.	12 8 6	12 8 6	..	..	
			Do.	Casuarina trees ..	No. 8	..	2 0 0	16 0 0	16 0 0	..	..	
			Do.	Do. ..	,, 15	..	3 0 0 per ton.	45 0 0	45 0 0	..	..	
			Do.	Do. ..	,, 6	..	1 0 0 per ton.	6 0 0	6 0 0	..	..	
				Total ..	..	..	..	8,262 11 1	7,678 12 5	..	..	
				Outstandings realised.	..	..	..	..	2,656 10 0	..	..	
					Tons 1513 and No. 176	1,105¾	..	..	10,335 6 5	..	..	
	..	..	I (*c*).	Bamboos	No. 500	..	0 1 6 each.	46 14 0	46 14 0	..	..	
				Total of the district.	..	..	..	8,386 9 1	11,209 4 5	..	..	
				Sold from depot.		C FT.						
South Arcot.	..	Tiruvannámalai.	I (*a*).	Acha log	No. 1	14 0	1 2 0	15 12 0	15 12 0	No. 1	..	
			Do.	Do.	,, 1	5 1	0 15 0	4 12 3	4 12 3	,, 1	..	
			Do.	Mango log	,, 1	7 5	0 12 0	5 9 0	5 9 0	,, 1	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depot—cont.	NO.	C. FT.	RS. A. P.	RS A. P.	RS. A. P.	NO.		
			I (*a*).	Mango log	4	54 3	0 8 0	27 2 0	27 2 0	4	..	
			Do.	Do. ..	2	14 4	0 4 0	3 9 4	3 9 4	2	..	
			Do.	Vengai poles ..	40	100 3	1 2 0	112 12 6	112 12 6	40	..	
			Do.	Do. ..	5	24 4	1 0 0	24 5 4	24 5 4	5	..	
			Do.	Do. ..	166	247 11	0 15 0	232 6 9	232 6 9	166	..	
			Do.	Do. ..	3	4 5	0 13 0	3 9 5	3 9 5	3	..	
			Do.	Do. ..	14	25 10	Highest bid.	22 7 0	22 7 0	14	..	
			Do.	Miscellaneous timber poles.	1	2 3	1 2 0	2 8 6	2 8 6	1	..	
	..	Tiruvannámalai —*cont.*	Do.	Do. ..	9	33 6	1 0 0	33 8 0	33 8 0	9	..	
			Do.	Do. ..	16	20 11	0 15 0	19 9 9	19 9 9	16	..	
			Do.	Do. ..	13	19 9	0 14 0	17 4 6	17 4 6	13	..	
			Do.	Do. ..	31	43 11	0 13 0	35 10 11	35 10 11	31	..	
			Do.	Do. ..	164	272 11	0 12 0	204 11 0	204 11 0	164	..	
			Do.	Do. ..	35	47 4	0 11 0	32 8 8	32 8 8	35	..	
			Do.	Do. ..	299	661 8	0 10 0	413 8 8	413 8 8	299	..	
			Do.	Do. ..	1	1 0	0 9 6	0 9 6	0 9 6	1	..	
			Do.	Do. ..	166	368 9	0 8 0	184 6 0	184 6 0	166	..	
			Do.	Do. ..	1	3 9	0 7 2	1 10 11	1 10 11	1	..	
			Do.	Do. ..	1	1 1	0 4 7	0 4 11	0 4 11	1	..	
South Arcot—*cont.*			Do.	Do. ..	66	132 5	Highest bid.	70 0 5	70 0 5	66	..	
			Do.	Acha log	1	9 11	1 2 0	11 2 6	11 2 6	1	..	
			Do.	Vengai poles ..	2	7 6	1 2 0	8 7 0	8 7 0	2	..	
			Do.	Do. ..	6	6 0	1 0 0	6 0 0	6 0 0	6	..	
			Do.	Mango wood ..	5	54 3	Highest bid.	28 7 0	28 7 0	5	..	
			Do.	Miscellaneous timber poles.	1	3 3	1 1 0	3 7 3	3 7 3	1	..	
			Do.	Do. ..	7	24 8	1 0 0	24 10 8	24 10 8	7	..	
			Do.	Do. ..	35	54 10	0 15 0	51 6 6	51 6 6	35	..	
			Do.	Do. ..	30	43 9	0 14 0	38 4 6	38 4 6	30	..	
			Do	Do. ..	39	122 11	0 13 0	99 13 11	99 13 11	39	..	
	Chidambaram.	Tindivanam ..	Do.	Do. ..	22	64 1	0 11 0	44 0 11	44 0 11	22	..	
			Do.	Do. ..	134	355 0	Highest bid.	230 6 8	230 6 8	134	..	
			Do.	Kandan poles ..	25	34 8	0 3 0	6 8 0	6 8 0	25	..	
				Sold locally.								
			Do.	Vengai poles	2	1 0	0 15 0	0 15 0	0 15 0	2	..	
			Do.	Do. ..	4	9 8	0 13 0	7 13 8	7 13 8	4	..	
			Do.	Miscellaneous timber poles.	377	641 1	0 8 0	270 8 8	270 8 8	377	..	
			Do.	Do. ..	2	95 10	0 6 0	35 15 0	35 15 0	2	..	
			Do.	Nona poles	3	..	Highest bid.	3 8 0	3 8 0	3	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c. removed.	Number sold but remaining unremoved.	Remarks.
				Sold locally—cont.	NO.	C. FT.	RS. A. P.	RS. A. P.	RS. A. P.	NO.		
		Tindivanam—*cont.*	I (*a*).	Casuarina poles ..	70	454 4	0 10 0	283 15 4	283 15 4	70	..	
			Do.	Do. ..	55	168 8	0 8 0	84 5 4	71 15 4	55	..	
			Do.	Do. ..	1,244	1,752 1	0 4 0	438 0 4	438 0 4	244	..	
			Do.	Do. ..	146	89 7	0 3 0	16 12 9	16 12 9	141	..	
			Do.	Do. ..	100	150 0	0 6 0	37 8 0	37 8 0	100	..	
				Transport charge ..	..	..	per pole. ..	45 15 0	45 15 0	..	..	
				Total of I (*a*) ..	..	..	..	3,246 11 4	3,234 5 4	..	..	
				Sold from depot.	TONS. LB.					TONS. LB.		
	Chidambaram—*cont.*		I (*b*).	Dead firewood ..	0 1,120	..	2 6 0	1 3 0	1 3 0	0 1,120	..	
			Do.	Kandan, &c., firewood.	3 560	..	6 12 0	21 15 0	21 15 0	3 560	..	
			Do.	Do. ..	4 2,128	..	6 8 3	32 4 0	32 4 0	4 2,128	..	
			Do.	Do. ..	1 784	..	6 4 0	8 7 0	8 7 0	1 784	..	
			Do.	Do. ..	6 0	..	5 10 0	33 12 0	33 12 0	6 0	..	
			Do.	Do. ..	15 1,018	..	5 8 0	85 0 0	85 0 0	15 1,018	..	
			Do.	Do. ..	34 1,400	..	4 8 0	155 13 0	155 13 0	34 1,400	..	
		Tiruvannámalai	Do.	Do. ..	263 308	..	4 7 5	1,174 8 5	1,174 8 5	263 308	..	
			Do.	Do. ..	1 0	..	4 0 0	4 0 0	4 0 0	1 0	..	
			Do.	Do. ..	229 1,755	..	5 0 0	1,148 14 9	1,148 14 9	229 1,755	..	
			Do.	Do. ..	5 860	..	3 0 0	16 2 0	16 2 0	5 860	..	
			Do.	Do. ..	0 224	..	2 8 0	0 4 0	0 4 0	0 224	..	
			Do.	Do. ..	38 2,063	..	3 9 0	138 10 6	138 10 6	38 2,063	..	
			Do.	Do. ..	15 93	..	1 8 0	22 9 0	22 9 0	15 93	..	
			Do.	Do. ..	3 1,120	..	2 0 0	7 0 0	7 0 0	3 1,120	..	
South Arcot—*cont.*			Do.	Do. ..	0 224	..	1 4 0	0 2 0	0 2 0	0 224	..	
			Do.	Babul firewood ..	0 1,120	..	5 0 0	2 8 0	2 8 0	0 1,120	..	
				Sold locally.								
			Do.	Babul firewood ..	804 640	..	5 8 0	4,423 9 3	3,307 13 10	804 640	..	
			Do.	Do. ..	1 1,120	..	5 0 0	7 8 0	7 8 0	1 1,120	..	
	No. III Range.	Villupuram taluk forests.	Do.	Do. ..	39 560	..	4 0 0	157 0 0	157 0 0	39 560	..	
			Do.	Do. ..	35 640	..	4 8 0	158 12 6	158 12 6	35 640	..	
			Do.	Do. ..	48 1,512	..	Highest bid.	91 0 9	91 0 9	49 280	..	
			Do.	Casuarina, &c., firewood.	2 448	..	5 10 0	12 6 0	12 6 0	2 448	..	
			Do.	Do. ..	55 0	..	5 2 0	281 14 0	281 14 0	55 0	..	
			Do.	Do. ..	3 1,872	..	6 0 0	23 0 3	23 0 3	3 1,872	..	
			Do.	Do. ..	90 1,162	..	5 0 0	452 9 6	451 5 6	90 1,162	..	
	No. IV Range.	Cuddalore ..	Do.	Do. ..	485 934	..	4 8 0	2,184 6 0	2,184 6 0	485 934	..	
			Do.	Do. ..	0 1,680	..	4 0 0	3 0 0	3 0 0	0 1,680	..	
			Do.	Do. ..	46 1,120	..	2 8 0	116 4 0	116 4 0	46 1,120	..	
			Do.	Do. ..	20 1,120	..	1 4 0	25 1 0	25 1 0	20 1,120	..	
			Do.	Do. ..	13 1,120	..	1 14 0	25 5 0	25 5 0	13 1,120	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
					TONS. LB.		RS. A. P.	RS. A. P.	RS. A. P.	TONS. LB.		
South Arcot—*cont.*	IV Range—*cont.*	Cuddalore—*cont.*	I (*b*)	Casuarina, &c., firewood	4 560	..	3 4 0	13 13 0	13 13 0	4 560	..	
			Do.	Do. ..	20 1,792	..	0 5 0	6 8 0	6 8 0	20 1,792	..	
			Do.	Do ..	2 0	..	1 12 0	3 8 0	3 8 0	2 0	..	
			Do.	Do. ..	6 0	..	3 2 0	18 12 0	18 12 0	6 0	..	
			Do.	Do. ..	1 336	..	0 10 0	0 11 6	0 11 6	1 336	..	
			Do.	Babul firewood ..	157 0	..	5 8 0	863 8 0	863 8 0	157 0	..	
			Do.	Do. ..	15 0	..	Highest bid.	50 0 0	50 0 0	15 0	..	
			Do.	Do. ..	0 1,848	..	5 0 0	4 2 0	4 2 0	0 1,848	..	
			Do.	Do. ..	0 1,008	..	2 8 0	1 2 0	1 2 0	0 1,008	..	
			Do.	Do. ..	0 224	..	0 10 0	0 1 0	0 1 0	0 224	..	
			Do.	Casuarin a firewood.	0 672	..	5 0 0	1 8 0	1 8 0	0 672	..	
			Do.	Do. ..	0 840	..	1 4 0	0 7 6	0 7 6	0 840	..	
		Chidambaram ..	Do.	Do. ..	11 0	..	0 5 0	3 7 0	3 7 0	11 0	..	
			Do.	Kandan firewood ..	0 2,016	..	5 0 0	4 8 0	4 8 0	0 2,016	..	
			Do.	Do. ..	3 747	..	6 0 0	20 0 0	20 0 0	3 747	..	
			Do.	Do. ..	77 1,820	..	4 0 0	311 4 0	311 4 0	77 1,820	..	
			Do.	Do. ..	12 1,624	..	2 8 0	31 13 0	31 13 0	12 1,624	..	
		VII. Vriddhá-chalam.	Do.	Velvelam firewood..	51 0	..	1 8 0	76 8 0	76 8 0	51 0	..	
				Total of I (*b*) ..	..	..	..	12,226 5 11	11,109 6 6	..	..	
				Sold locally.								
			I (*c*).	Bamboos	No. 5	..	0 3 0 each.	0 15 0	0 15 0	No. 5	..	
			Do.	Do.	,, 24	..	0 6 0	9 0 0	9 0 0	,, 24	..	
		II. Tindivanam.	Do.	Do.	,, 2	..	0 6 6	0 13 0	0 13 0	,, 2	..	
			Do.	Do.	,, 5	..	0 4 0	1 4 0	1 4 0	,, 5	..	
			Do.	Do.	lb. 112	..	2 8 0 per ton.	0 2 0	0 2 0	lb. 112	..	
				Total of I (*c*) ..	..	..	..	12 2 0	12 2 0	..	..	
				Sold from depot.								
					TONS. LB.					TONS. LB.		
			I (*d*).	Sandalwood billets..	0 270	..	400 0 0 per ton.	48 3 5	48 3 5	0 270	..	
			Do.	Do. ..	0 386½	..	280 0 0	48 5 0	48 5 0	0 386½	..	
		I Trinomalai..		*Sold locally.*								
			Do.	Sandalwood ..	0 21	..	0 2 10⅔ per lb.	3 12 0	3 12 0	0 21	..	
			Do.	Do. roots ..	0 14	..	0 1 5⅓	1 4 0	1 4 0	0 14	..	
				Total of I (*d*) ..	..	..	..	101 8 5	101 8 5	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget Sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold locally.	TONS. LB.		RS. A. P.	RS. A. P.	RS. A. P.	TONS. LB.		
South Arcot.—*cont.*	I. Trinomalai—*cont.*	..	I (*e*).	Gallnuts	0 560	..	0 0 4½ per lb.	13 2 0	13 2 0	0 560	..	
			Do.	Honey	0 64⅜	..	0 3 0 per lb.	12 1 2	12 1 2	0 64⅜	..	
			Do.	Do.	0 20¾	..	0 2 0	2 9 6	2 9 6	0 20¾	..	
			Do.	Wax	0 5	..	0 7 0	2 3 0	2 3 0	0 5	..	
			Do.	Thatching grass ..	0 1,120	..	5 0 0	2 8 0	2 8 0	0 1,120	..	
			Do.	Do. ..	0 546	..	6 10 8	1 10 0	1 10 0	0 546	..	
	II. Tindivanam.	..	Do.	Honey	0 8	..	0 2 9	1 6 0	1 6 0	0 8	..	
	IV. Chidambaram.	..	Do.	Silk cotton pods ..	No. 8,000	..	2 0 0 per 1,000.	16 0 0	16 0 0	No. 8,000	..	
					TONS. LB.					TONS. LB.		
			Do.	Gallnuts	1 1,120	..	55 0 0	82 8 0	82 8 0	1 1,120	..	
			Do.	Do.	5 686	..	52 8 0	278 9 3	278 9 3	5 686	..	
			Do.	Manipungam seed ..	6 560	..	40 13 4	255 3 4	255 3 4	6 560	..	
			Do.	Nirpungam seed ..	0 560	..	23 5 4	5 13 4	5 13 4	0 560	..	
			Do.	Do. ..	0 1,186⅔	..	35 0 0	18 8 8	18 8 8	0 1,186⅔	..	
	I. Trinomalai ..	..	Do.	Tagarai seed ..	4 210	..	23 5 4	95 8 4	95 8 4	4 210	..	
			Do.	Sembaram bark ..	2 280	..	10 0 0	21 4 0	21 4 0	2 280	..	
			Do.	Honey	0 146	..	0 2 0 per lb.	18 4 0	18 4 0	0 146	..	
			Do.	Wax	0 56	..	0 7 0 per lb.	24 8 0	24 8 0	0 56	..	
	II. Tindivanam.	..	Do.	Honey	0 4	..	0 2 0 per lb.	0 8 0	0 8 0	0 4	..	
	III. Villupuram	..	Do.	Velal grass	0 336	..	0 10 0 per ton.	0 1 6	0 1 6	0 336	..	
	IV. Cuddalore..	..	Do.	Mango fruit ..	No. 195	..	0 1 8 per 100.	0 3 3	0 3 3	No. 195	..	
					TONS. LB.					TONS. LB.		
	Chidambaram ..	..	Do.	Honey	0 1¼	..	0 4 0	0 5 0	0 5 0	0 1¼	..	
	Vriddháchalam.	..	Do.	Velvelam bark ..	2 0	..	18 0 0 per ton.	36 0 0	36 0 0	2 0	..	
			Do.	Do. ..	3 0	..	16 0 0	48 0 0	48 0 0	3 0	..	
				Total of I (*e*) ..	..	..	..	936 12 4	936 12 4	..	..	
				Total of district ..	..	..	..	16,523 8 0	15,394 2 7	..	..	
				Deduct excess in District Forest-officer's accounts as compared with Examiner's.	..	..	..	3 0 0	..	..	..	
				Grand Total ..	..	..	..	16,520 8 0	15,314 2 7	..	..	

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved	Remarks.
				Sold from depot.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
Salem ..	Pennagaram.	..	I (*a*)	Acha	19	22 4	1 4 4	28 11 5	28 11 5	19 logs.	..	
		..	Do.	Vengai	1	1 11	1 4 4	2 8 6	2 8 6	1	..	
		..	Do.	Bilvaram	28	239 4	1 0 0	271 9 8	271 9 8	32 logs.	..	
		..	Do.	Thumbai	4	32 2						
		..	Do.	Dindigai	319	422 6						
	Denkanikóta.	..	Do.	Nagai	230	207 7	0 12 0	525 7 9	525 7 9	649	..	
		..	Do.	Puluvai	99	69 0						
		..	Do.	Manjakadambai ..	1	1 0						
		..	Do.	Teak	1	2 7	1 0 0	2 11 2	2 11 2	1	..	
		..	Do.	Jungle-wood ..	313	222 8	0 11 0	153 0 7	153 0 7	313	..	
				Total of I (*a*) ..	..	..	..	984 1 1	984 1 1	..	..	
	..	..	I (*b*)	Firewood	Tons 12	lb. 840	0 10 0	7 11 9	7 11 9	12 840	..	
				Sold locally.								
	Salem	..	Do.	Firewood	57	1,680	1 6 9	82 4 0	82 4 0	57 1,680	..	
				Total of I (*b*) ..	..	..	..	89 15 9	89 15 9	..	..	
				Sold from depot.								
	Denkanikóta.	..	I (*c*)	Bamboos	No. 200 (big size) 5 tons.	..	11 4 0	22 8 0	22 8 0	200	..	
		..	Do.	Do.	No. 1,000 (small) 5 tons.	..	1 8 0 per 100	15 0 0	15 0 0	1,000	..	
				Sold locally.								
		..	Do.	Bamboos	4	448	2 8 0	10 8 0	10 8 0	4 448	..	
				Total of I (*c*) ..	..	..	..	48 0 0	48 0 0	..	..	
				Sold from depot.								
	Pennagaram.	..	I (*d*)	Sandal-wood roots ..	..	lb. 56	250 0 0 a ton.	6 4 0	13 2 0	lb. 364	..	
		..	Do.	Do. chips ..	..	308	50 0 0	6 14 0				
	Denkanikóta.	..	Do.	Do. roots ..	2	574	250 0 0 a ton.	564 1 0	575 2 6	2 1,071	..	
		..	Do.	Do. chips ..	..	497	50 0 0	11 1 6				
				Total of I (*d*) ..	..	..	..	588 4 6	588 4 6	..	..	
				Total of district ..	..	..	..	1,710 5 4	1,710 5 4	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold locally.	Tons. lb.		Rs. A. P.	Rs. A. P.	Rs. A. P.			
Trichinopoly—	Pennagaram ..	..	I (*a*)	Timber	..	70 C. ft.	1 0 0 per 5 C. ft.	14 0 0	14 0 0	..	..	
	Kulitalai ..	..	Do.	Ficus Indica ..	No. 1	..	1 12 0	1 12 0	1 12 0	1	..	
	Manatattai ..	..	Do.	Casuarina trees ..	,, 9	..	2 0 0	18 0 0	18 0 0	9	..	
		..	Do.	Do.	,, 2	..	3 0 0	6 0 0	6 0 0	2	..	
		..	Do.	Do.	,, 1	..	1 0 0	1 0 0	1 0 0	1	..	
		..	Do.	Dalbergia sissu ..	,, 3	..	3 0 0	9 0 0	9 0 0	3	..	
	Kulitalai ..	..	Do.	Vagai tree	,, 1	..	3 0 0	3 0 0	3 0 0	1	..	
		..	Do.	Do.	,, 1	..	1 0 0	1 0 0	1 0 0	1	..	
		..	Do.	Babul tree	,, 1	..	1 0 0	1 0 0	1 0 0	1	..	
		..	Do.	Casuarina tree ..	,, 2	..	2 0 0	4 0 0	4 0 0	2	..	
				Total of I (*a*) ..	..	..	..	58 12 0	58 12 0	..	..	
				Sold from depôt.								
	Trichinopoly ..	..	I (*b*).	Firewood	Tons ·304	lb. 1,792	1 14 0	571 8 0	571 8 0	..	..	
		..	Do.	Do.	,, 52	,, 896	1 9 0	81 14 0	81 14 0	..	..	
		..	Do.	Do.	,, 1	..	1 6 0	1 6 0	1 6 0	..	..	
	Tiruvadi ..	..	Do.	Do.	,, 62	,, 448	3 12 0	233 4 0	233 4 0	..	..	
		..	Do.	Do.	,, 267	,, 896	3 9 0	835 10 0	835 10 0	..	..	
		..	Do.	Do.	,, 110	,, 896	5 0 0	552 0 0	552 0 0	..	..	
	Kumbakónam.	..	Do.	Do.	,, 229	,, 448	4 6 0	1,002 12 0	1,002 12 0	..	..	
		..	Do.	Do.	,, 81	,, 448	4 1 0	329 14 0	329 14 0	..	..	
		..	Do.	Do.	,, 223	,, 1,056	3 12 0	838 0 3	838 0 3	..	..	
		..	Do.	Do.	,, 98	,, 448	3 2 0	306 14 0	306 14 0	..	..	
				Sold locally.								
	Punganúr ..	..	I (*b*).	Firewood	,, 200	..	3 12 0	750 0 0	750 0 0	..	..	
		..	Do.	Do.	,, 8	..	1 0 0	8 0 0	8 0 0	..	..	
		..	Do.	Do.	,, 167	..	4 8 0	751 8 0	751 8 0	..	..	
		..	Do.	Do.	,, 37	..	3 8 0	129 8 0	129 8 0	..	..	
	Elamanur ..	..	Do.	Do.	,, 8	..	1 4 0	10 0 0	10 0 0	..	..	
		..	Do.	Do.	,, 1	,, 1,344	0 10 0	1 0 0	1 0 0	..	..	
		..	Do.	Do.	,, 23	..	0 3 0	4 5 0	4 5 0	..	..	
	Pettuvaitalai ..	..	Do.	Do.	,, 6	..	4 8 0	27 0 0	27 0 0	..	..	
		..	Do.	Do.	,, 1	..	3 8 0	3 8 0	3 8 0	..	..	
		..	Do.	Do.	,, 186	,, 206	4 8 0	837 6 7	837 6 7	..	..	
		..	Do.	Do.	,, 62	,, 1,704	3 8 0	219 10 7	219 10 7	..	..	
	Kulitalai ..	..	Do.	Do.	,, 1	,, 448	1 9 0	1 14 0	1 14 0	..	..	
		..	Do.	Do.	,, 11	,, 448	1 6 6	15 12 0	15 12 0	..	..	
		..	Do.	Do.	,, 64	,, 2,016	1 4 0	81 2 0	81 2 0	..	..	
		..	Do.	Do.	..	,, 1,792	0 15 0	0 12 0	0 12 0	..	..	
		..	Do.	Do.	,, 346	,, 802	4 8 0	1,558 9 9	1,558 9 9	..	..	
	Lálápet	..	Do.	Do.	,, 109	,, 2,218	3 8 0	384 15 5	384 15 5	..	..	
		..	Do.	Do.	,, 36	..	0 8 0	18 0 0	18 0 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold locally—cont.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
Trichinopoly—*cont.*	Sittalavai ..	..	I (*b*)	Firewood	Tons 244	lb. 1,246	4 8 0	1,100 8 0	1,100 8 0	..	..	
		..	Do.	Do.	,, 65	,, 1,141	3 8 0	229 4 5	229 4 5	..	..	
		..	Do.	Do.	,, 13	..	0 8 0	6 8 0	6 8 0	..	..	
	Kattalai ..	..	Do.	Do.	,, 113	..	4 8 0	508 8 0	508 8 0	..	..	
		..	Do.	Do.	,, 38	..	3 8 0	133 0 0	133 0 0	..	..	
		..	Do.	Do.	,, 52	..	0 8 0	26 0 0	26 0 0	..	..	
		..	Do.	Do.	,, 62	..	4 8 0	279 0 0	279 0 0	..	..	
		..	Do.	Do.	,, 31	530	3 8 0	109 5 3	109 5 6	..	..	
	Váyalúr ..	..	Do.	Do.	,, 173	,, 1,991	4 8 0	782 8 0	782 8 0	..	..	
		..	Do.	Do.	,, 79	,, 2,205	3 8 0	279 15 1	279 15 1	..	..	
		..	Do.	Do.	,, 5	,, 896	1 6 6	7 9 6	7 9 6	..	..	
		..	Do.	Do.	,, 181	,, 1,120	1 4 0	226 14 0	226 14 0	..	..	
	Ambásamudram.	..	Do.	Do.	,, 305	,, 717	4 8 0	1,373 15 0	1,373 15 0	..	..	
		..	Do.	Do.	,, 113	,, 1,695	3 8 0	398 2 4	398 2 4	..	..	
	Kattuvai ..	..	Do.	Do.	..	472	3 8 0	0 11 9	0 11 9	..	..	
	Kolamanickam	..	Do.	Casuarina poles ..	No. 10	..	0 4 0	2 8 0	2 8 0	..	..	
		..	Do.	Do. ..	,, 2	..	0 8 0	1 0 0	1 0 0	..	..	
	Adamur ..	..	Do.	Charcoal	Ton. 1	,, 224	15 0 0	16 8 0	16 8 0	..	..	
				Total of I (*b*) ..	..	..	..	15,037 14 11	15,037 15 2	..	..	
	Manatattai ..	..	I (*c*)	Bamboos	No. 33	..	6 per rupee.	5 8 0	5 8 0	..	..	
		..	Do.	Do.	,, 4	..	4 ,,	1 0 0	1 0 0	..	..	
				Total of I (*c*) ..	..	..	..	6 8 0	6 8 0	..	..	
				Total of district ..	..	..	..	15,103 2 11	15,103 3 2	..	..	
				Sold locally.								
Tanjore ..	..	Vettangudi forests.	I (*b*)	Firewood	19	1,120	1 8 0	30 0 0	30 0 0	19 1120	..	
	..	..	Do.	Do.	92	..	3 4 3	303 0 0	303 0 0	92 0	..	
				Total of I (*b*) ..	..	..	..	333 0 0	333 0 0	..	..	
				Sold locally.								
North Coimbatore	Kollegál ..	..	I (*a*)	Blackwood	2 pieces.	..	..	4 12 1	4 12 1	2 pieces.	..	
				Total of I (*a*) ..	..	..	..	4 12 1	4 12 1	..	..	
				Sold from depot.								
South Coimbatore.	..	Coimbatore depôt.	I (*a*)	Teak (1st class) ..	Logs. 31	1,398 8 7	2 0 0	2,797 7 1	2,797 7 1	31	..	
	..	..	Do.	Do (2nd do.) ..	,, 55	2,032 8 5	1 12 0	3,557 4 2	3,557 4 2	55	..	
	..	..	Do.	Do. (3rd do.) ..	,, 126	5,207 4 10	1 8 0	7,811 1 8	7,811 1 8	126	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depot—cont.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
South Coimbatore —*cont.*	Kollegál—*cont.*	Coimbatore depôt —*cont.*	I (*a*)	Teak (4th class) ..	Logs. 18	656 4 11	1 4 0	820 8 4	820 8 4	18	..	
			Do.	Do. do. ..	,, 3	115 0 0	0 10 0	71 14 0	71 14 0	3	..	
			Do.	Rosewood	,, 6	163 6 0	0 9 0	91 15 7	91 15 7	6	..	
			Do.	Teak rafters ..	,, 24	235 3 9	1 8 0	352 15 6	352 15 6	24	..	
			Do.	Do.	,, 1	10 3 3	1 4 0	12 8 5	12 8 5	1	..	
		Animalai depôt.	Do.	Rosewood	,, 1,144	2,638 11 4	..	772 14 0	772 14 0	144	..	
			Do.	Do.	,, 1	20 5 3	9-2-11 per candy	15 0 2	15 0 2	1	..	
			Do.	Do.	,, 16	207 9 10	9 0 0	149 10 1	149 10 1	16	..	
			Do.	Teak logs	,, 13	149 2 6	0 4 6	41 15 6	41 15 6	13	..	
			Do.	Do.	,, 90	1,277 8 2	9 0 0	919 14 11	919 14 11	90	..	
			Do.	Do.	,, 12	265 5 1	12 0 0	254 12 11	254 12 11	12	..	
			Do.	Vengai	,, 1	18 1 0	0 4 6	5 1 4	5 1 4	1	..	
		Pollâchi depôt.	Do.	Teak rafters ..	,, 40	489 4 5	1 4 0	611 11 9	611 11 9	40	..	
			Do.	Do.	,, 23	305 0 1	1 0 0	305 0 0	305 0 0	23	..	
			Do.	Miscellaneous logs.	,, 85	2,314 2 11	..	1,429 13 0	1,429 13 0	85	..	
			Do.	Rosewood	,, 2	22 9 0	1 0 0	22 12 0	22 12 0	2	..	
			Do.	Do.	,, 3	48 3 1	10 0 0	38 9 9	38 9 9	3	..	
		Vellarugu depôt.	Do.	Teak logs	,, 1	30 8 2	1 8 0	46 0 2	46 0 2	1	..	
			Do.	Do.	,, 2	87 0 10	1 9 0	136 0 9	136 0 9	2	..	
			Do.	Do.	,, 1	42 3 0	1 5 0	55 7 3	55 7 3	1	..	
			Do.	Teak rafters ..	,, 13	173 11 6	1 0 0	173 15 4	173 15 4	13	..	
			Do.	Miscellaneous logs ..	,, 61	1,623 10 11	6 4 0	811 15 3	811 15 3	61	..	
			Do.	Do. ..	,, 2	25 2 10	9 0 0	18 2 8	18 2 8	2	..	
				Total of I (*a*) ..	..	..	..	21,324 7 7	21,324 7 7	..	..	
				Sold from depot.								
		Coimbatore depôt.	I (*e*)	Dammer	..	lb. 1,673¾	..	80 5 8	80 5 8	1,673¾ lb.	..	
			Do.	Wax	Ton 1	,, 1,135	..	1,593 14 1	1,593 14 1	1 1,135	..	
			Do.	Honey	..	Measrs. 3,109	..	670 4 11	670 4 11	3,109 Msrs.	..	
			Do.	Canes (1st, 2nd and 3rd sort.)	No. 25,135	..	..	588 2 11	588 2 11	No. 25,135	..	
			Do.	Cardamoms ..	..	lb. 1,425	..	996 10 4	996 10 4	1,425 lb.	..	
			Do.	Dammer (1st and 2nd sort.)	3	,, 1,273¾	..	680 3 1	680 3 1	3 1,273¾	..	
		Animalai depôt.	Do.	Elephant tusk ..	..	,, 3½	..	6 6 0	6 6 0	0 3½	..	
			Do.	Other minor produce.	..	,, 1,191	..	104 12 4	104 12 4	1,191 lb.	..	
			Do.	Wax	..	,, 940	..	349 12 1	349 12 1	940 ,,	..	
			Do.	Honey	..	Measrs. 2,33½	..	62 7 1	62 7 1	Msrs. 233½	..	
			Do.	Dammer (2nd and 3rd sort).	2	288¾	..	396 4 7	396 4 7	2 288¾	..	
			Do.	Cardamoms	..	711	..	498 1 6	498 1 6	0 711	..	
			Do.	Canes (1st and 2nd sort).	No. 4,025	..	..	70 9 1	70 9 1	No. 4,025	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depot—cont.				Rs. A. P.	Rs. A. P.			
South Coimbatore —*cont.*	III Range.—*cont.*	Anaimalai depôt.—*cont.*	(I) *e*	Gallnuts	1	1,907½	..	1,137 7 8	1,137 7 8	1 1907½	..	
	..	..	Do.	Other minor produce	1	2,080½	..	211 0 2	211 0 2	1 2080½	..	
				....	..	..	..	7,446 5 6	7,446 5 6	..	..	
				Add amount of sales (as per Examiner's books for which particulars have not been furnished by District Forest-officer).	..	..	..	117 10 8	117 10 8	..	..	
				Total of I (*e*) ..	..	..	..	7,564 0 2	7,564 0 2	..	..	
				Total of district..	..	..	..	28,888 7 9	28,888 7 9	..	..	
				Sold locally.	No.	C. ft.						
	..	..	I (*a*)	Teak	..	61 09	..	58 2 6	58 2 6	61 09	..	
	..	..	Do.	Vengai	..	1,004 87	..	939 12 0	939 12 0	1004 87	..	
	..	..	Do.	Blackwood	..	394 97	..	383 8 0	383 8 0	394 97	..	
	..	..	Do.	Miscellaneous timber	3	44 53	..	40 12 0	40 12 0	44 53	..	
	No. II, Kodaikánal Range.	..	Do.	Vengai	..	624$\frac{127}{144}$ c ft. 45½ sq. ft.	..	1,003 10 3	1,003 10 3	624$\frac{127}{144}$ c. ft. 45½ sq. ft.	..	
	..	..	Do.	Vagai and naval ..	15	241⅜ c. ft.	..	347 3 1	347 3 1	241⅜ c. ft.	..	
	..	..	Do.	Vengai		824⅜ sq. ft.				824⅜ sq. ft		
Madura ..				Amount realized on hire of Government carts for removal of timber sold to parties.	..	..	..	34 4 0	34 4 0	..	..	
				Total of I (*a*) ..	..	..	..	2,807 3 10	2,807 3 10	..	..	
				Sold from depot.	Tons.	lb.	Rs. A. P					
	..	..	I (*b*)	Firewood	227	1,270	3 0 0 per 1,000 lb.	1,529 4 0	1,529 4 0	227 1270	..	
	..	..	..	Amount realized on sale of small twigs, &c.	..	..	..	0 12 0	0 12 0	..	..	
	..	..	..	Amount realized on hire of Government carts.	..	..	..	34 7 0	34 7 0	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold but remaining unremoved.	Remarks.
				Sold from depot.				Rs. A. P.	Rs. A. P.			
Madura—*cont.*	No. V, Madura range.	..	I (*b*)	Firewood	132	1,512	..	403 10 4	403 10 4	132 1,512	..	
				Total of I (*b*) ..	..	..	..	1,968 1 4	1,968 1 4			
				Total of district ..	..	..	..	4,775 5 2	4,775 5 2			
				Sold from depôt.								
	..	Ambásamudram sale depôt.	I (*a*)	Kongu rafters ..	2	1 0 11	..	1 0 8	1 0 8	2	..	
	..		Do.	Do. ..	36	18 8 8	..	12 0 0	12 0 0	36	..	
	..		Do.	Do. ..	110	135 1 5	..	165 10 8	165 10 8	110	..	
	..		Do.	Do. ..	5	6 0 4	..	6 15 2	6 15 2	5	..	
	..		Do.	Do. ..	132	154 0 0	..	155 6 8	155 6 8	132	..	
	..		Do.	Do. ..	5	9 3 10	..	10 11 1	10 11 1	5	..	
	..		Do.	Do. ..	33	134 7 5	..	168 4 5	168 4 5	33	..	
	..		Do.	Do. ..	1	1 10 4	..	2 5 4	2 5 4	1	..	
	..		Do.	Do. ..	4	2 11 1	..	2 0 0	2 0 0	4	..	
	..		Do.	Do. ..	30	28 7 0	..	28 2 0	28 2 0	30	..	
	..		Do.	Do. ..	2	12 6 0	..	8 9 6	8 9 6	2	..	
	..		Do.	Do. ..	3	18 9 6	..	18 2 8	18 2 8	3	..	
	..		Do.	Do. ..	4	10 5 0	..	9 1 8	9 1 8	4	..	
	..		Do.	Do. ..	8	19 7 1	..	20 7 3	20 7 3	8	..	
	..		Do.	Do. ..	10	17 9 1	..	24 6 8	24 6 8	10	..	
	..		Do.	Do. ..	14	9 4 0	..	14 0 0	14 0 0	14	..	
	..		Do.	Miscellaneous pieces.	155	15 0 0	..	11 1 0	11 1 0	155	..	
Tinnevelly				*Sold locally.*								
	..	Pambanar forest.	I (*a*)	Kongu rafters ..	81	92 10 3	..	99 10 2	99 10 2	81	..	
	..		Do.	Do. ..	28	23 7 0	..	38 11 8	38 11 8	28	..	
	..		Do.	Kongu double rafters.	2	5 0 0	..	6 2 8	6 2 8	2	..	
	..		Do.	Kongu rafters ..	70	41 7 6	..	31 3 6	31 3 6	70	..	
	..		Do.	Do. ..	2	2 0 0	..	1 8 0	1 8 0	2	..	
	..		Do.	Do. ..	67	90 5 0	..	113 0 4	113 0 4	67	..	
	..		Do.	Do. ..	2	3 1 7	..	4 4 11	4 4 11	2	..	
	..		Do.	Do. ..	91	113 10 6	..	113 13 4	113 13 4	91	..	
	..		Do.	Do. ..	62	68 9 0	..	90 3 9	90 3 9	62	..	
	..		Do.	Do. ..	18	11 8 5	..	8 12 5	8 12 5	18	..	
	..		Do.	Do. ..	75	59 11 8	..	47 12 6	47 12 6	75	..	
	..		Do.	Do. ..	45	55 6 10	..	42 8 9	42 8 9	45	..	
	..		Do.	Do. ..	16	16 8 8	..	10 15 7	10 15 7	16	..	
	..		Do.	Do. ..	70	78 9 0	..	94 8 0	94 8 0	70	..	
	..		Do.	Do. ..	24	58 6 1	..	52 1 8	52 1 8	24	..	
	..		Do.	Do. ..	19	23 2 4	..	10 2 4	10 2 4	19	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
				Sold locally– cont.			Rs. A. P.	Rs. A. P.	Rs. A. P.	No.		
	..	Pambanar forest —*cont.*	I (*a*)	Kongu rafters ..	74	97 9 1	..	85 15 2	85 15 2	74	..	
			Do.	Vengai pillars ..	4	7 5 4	..	5 9 4	5 9 4	4	..	
			Do.	Shenkurni logs ..	15	21 1 7	..	27 11 9	27 11 9	15	..	
			Do.	Kongu yerkals ..	22	..	..	3 7 0	3 7 0	22	..	
			Do.	Do. rafters ..	38	47 7 7	..	52 9 5	52 9 5	38	..	
			Do.	Do. ..	1	1 11 2	..	1 12 9	1 12 9	1	..	
			Do.	Do. ..	1,831	2,211 0 7	..	2,665 12 0	2,665 12 0	1,831	..	
			Do.	Do. ..	63	79 6 10	..	92 9 4	92 9 4	63	..	
	..	Kariar forest depot.	Do.	Do. ..	16	19 2 9	..	21 4 8	21 4 8	16	..	
			Do.	Do. ..	11	26 1 0	..	24 0 0	24 0 0	11	..	
			Do.	Do. ..	73	113 2 4	..	141 7 10	141 7 10	73	..	
			Do.	Do. ..	34	39 8 7	..	52 2 0	52 2 0	34	..	
			Do.	Do. ..	15	18 3 8	..	13 11 8	13 11 8	15	..	
			Do.	Do. ..	50	62 8 8	..	56 13 6	56 13 6	50	..	
			Do.	Do. ..	25	31 6 4	..	20 11 0	20 11 0	25	..	
			Do.	Do. ..	5	25 7 4	..	28 13 0	28 13 0	5	..	
			Do.	Do. ..	7	10 3 8	..	11 9 6	11 9 6	7	..	
	..	Vallam hills ..	Do.	Miscellaneous pieces.	264	..	..	26 5 0	26 5 0	264	..	
				Total of I (*a*) ..	..	..	..	5,842 11 8	5,842 11 8	..	..	
Tinnevelly —*cont.*	..	..	..	Deduct amount of sale particulars furnished per previous outstanding revenue realised during the year.	..	..	..	1,082 8 5	..	..	..	
					..	..	..	4,760 3 3	5,842 11 8	..	..	
				Sold locally.								
			I (*b*)	Firewood	Tons. 80	lb. 1,120	5 0 0 per ton.	402 8 0	395 0 0	tons. 80 lb. 1,120	..	
	..	Pápanásam hills.	Do.	Do. ..	7	..	3 0 0	21 0 0	12 0 0	7 0	..	
			Do.	Charcoal ..	18	1,120	12 0 0	222 0 0	222 0 0	18 1,120	..	
			Do.	Do. ..	12	525	10 0 0	122 5 6	122 5 6	12 525	..	
				Total of I (*b*) ..	..	..	..	767 13 6	751 5 6	..	..	
				Sold from depot.								
			I (*c*)	Bamboopattai No. 150	..	280	2 8 0 per 100	3 12 0	3 12 0	150	..	
	..	..	Do.	Do. „ 180	..	336	2 4 0	4 0 10	4 0 10	180	..	
			Do.	Do. „ 50	..	93	2 0 0	1 0 0	1 0 0	50	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number of quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
				Sold locally.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
					No.							
Tinnevelly —*cont.*	–	Kariar forest depot.	I (*c*)	Bamboo pattai 3,000	2	1,120	1 10 0	48 12 0	48 12 0	3,000	..	
	..		Do.	Do. 2,145	1	1,764	2 12 0	58 15 10	58 15 10	2,145	..	
			Do.	Do. 100	..	187	2 14 0	2 14 0	2 14 0	100	..	
				Total of I (*c*) ..	..	..	..	119 6 8	119 6 8	..	..	
				Total of district ..	..	..	..	5,647 7 5	6,713 7 10	..	..	
				Sold locally.		c. ft.						
North Malabar.	..	Chedlet and Begur.	I (*a*)	Teak logs	..	38,296	..	17,842 8 6	17,842 8 6	..	..	
			Do.	Blackwood	..	13,709	..	3,996 12 0	3,996 12 0	..	..	
	..	Begur and Periya.	Do.	Miscellaneous ..	..	663	..	128 4 0	128 4 0	..	..	
				Total of I (*a*) ..	..	..	..	21,967 8 6	21,967 8 6	..	..	
			I (*e*)	Honey	..	lb. 120	0 3 0 per lb.	22 8 0	22 8 0	..	..	
	..	Manantoddy ..	Do.	Bees wax	..	,, 92	15 0 0 per 32 lb.	43 4 0	43 4 0	..	..	
				Total of I (*e*) ..	..	..	..	65 12 0	65 12 0	..	..	
				Total of district ..	..	..	..	22,033 4 6	22,033 4 6	..	..	
				Sold from depot.			Rs.					
South Malabar.	Nilambúr ..	Panangod forest depot.	I (*a*)	Teak	196	1,338	9 per 13 c.ft.	926 4 11	926 4 11	..	..	
		Pakod forest depot.	Do.	Blackwood	111	1,496	10 do.	1,150 12 4	1,150 12 4	..	..	
			Do.	Miscellaneous logs ..	504	6,928	..	1,457 13 7	1,316 5 3	..	..	
			Do.	Do. poles ..	104	302	..	135 2 0	135 2 0	..	..	
		Kallai sale depot.	Do.	Teak saplings ..	43,816	25,937	..	32,367 5 4	32,367 5 4	..	..	
				Sold locally.								
	Pálghat ..	Wálayár reserve ..	I (*a*)	Teak pieces ..	..	..	..	6 6 6	6 6 6	..	..	
		Chenat Nair do.	Do.	Blackwood ..	3	41¾	6 per 12½ c.ft	20 0 8	20 0 8	..	..	
			Do.	Miscellaneous timber.	299	11,692¼	..	4,795 10 6	4,795 10 6	..	..	
				Outstanding of previous year realized.	..	..	..	..	74 7 0	..	..	
				Total of I (*e*) ..	..	..	..	40,859 7 10	40,792 6 6	..	..	

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
				Sold from depot.			Rs. A. P.	Rs. A. P.	Rs. A. P.			
South Malabar.	..	Kallai depot ..	I (*b*)	Firewood	No. 3,567	..	..	342 10 6	342 10 6	..	..	
			I (*c*)	Bamboos	14,074	..	..	809 4 3	548 4 3	..	3,900	
	..	..	I (*c*)	*Sold locally.* Bamboos	340	..	..	24 1 0	24 1 0	..	..	
	Nilambúr.			Total of I (*c*) ..	..	..	..	833 5 3	572 5 3	..	..	
				Deduct under amount of sales the excess in District Forest-officer's accounts as compared with the Examiner's.	..	..	..	214 8 0	..	..	..	
				Total ..	..	..	..	618 13 3	572 5 3	..	..	
		..	I (*c*)	Sapan dyewood ..	9¾ Candies.	..	3 8 0 per candy.	34 2 0	34 2 0	..	..	
				Total of district ..	..	..	..	41,855 1 7	41,741 8 3	..	..	
				Sold from depot.								
			I (*a*)	Rosewood logs ..	40	689 7	10 7 3 per 12¾ C. ft.	565 6 2	565 6 2	..	38	
	..	Mangalore depot	Do.	Vengai logs ..	11	259 1	9 3 3	187 0 5	187 0 5	..	11	
			Do.	Miscellaneous logs..	284	7,014 0	9 2 6	*4,872 3 2	4,872 3 2	..	119	
				Sold locally.								
			I (*a*)	Rosewood logs ..	96	1,261 7	11 0 10	1,093 11 9	1,093 11 9	96	..	
			Do.	Vengai	1	43 0	7 10 7	26 15 8	26 15 8	1	..	
	Condapoor ..	..	Do.	Miscellaneous ..	364	10,948 5	6 13 3	†5,815 14 1	5,815 14 1	364	..	
			Do.	Teak poles ..	150	..	..	8 8 0	8 8 0	150	..	
South Canara.				Total ..	..	..	..	12,569 11 3	12,569 11 3	..	..	
				Outstandings realized.	..	..	..	..	115 0 0	..	..	
				Total of I (*a*) ..	..	..	..	12,569 11 3	12,684 11 3	..	..	
					Tons.	lb.				Tons. lb.		
	..	..	I (*b*)	Charcoal	..	728	..	9 0 0	9 0 0	0 728	..	
	..	Chinkramale ..	Do.	Firewood	200	..	..	170 0 0	170 0 0	200 0	..	
	..	Mulki	Do.	Banyan branches ..	..	..	..	2 6 0	2 6 0	..	..	
	..	Ullal Casuarina and Honne plantations.	Do.	Casuarina logs 83 ..	56	1,661	..	125 0 0	125 0 0	..	..	
			Do.	Do. poles 113.								
			Do.	Do. twigs ..	8	980	..	22 0 0	22 0 0	..	..	
			Do.	Do. roots ..	8	1,969	..	42 1 0	42 1 0	..	..	
			Do.	Do. branches..	13	848	..	45 0 0	45 0 0	..	..	

Rs. A. P.
† Gross amount .. 5,864 14 1
Deduct discount .. 49 0 0
Balance .. 5,815 14 1

Rs. A. P.
* Gross amount .. 5,035 11 2
Deduct discount.. 163 8 0
Balance .. 4,872 3 2

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depot or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
				Sold locally—cont.	TONS.	LB.	RS. A. P.	RS. A. P.	RS. A. P.			
South Canara—*cont.*	..	Ullal Casuarin and Honne plantations—*cont.*	I (*b*)	Casuarina billets, stumps and slabs.	69	112	..	427 0 0	427 0 0	..	..	
				Total of I (*b*) ..	..	..	..	842 7 0	842 7 0	..	..	
	..	Condapur Range.	I (*c*).	Myrabolams ..	69	798	0 6 0 per 28 lb.	2,092 4 8	2,092 4 8	..	..	
			Do.	Shegi pods	29	2,174	0 14 10	2,227 6 6	2,227 6 6	..	..	
			Do.	Pepper	..	1,374	9 0 0	441 1 6	441 1 6	..	..	
			Do.	Nux vomica	..	28	0 8 0	0 8 0	0 8 0	..	..	
			Do.	Wax, 1st sort ..	..	184	18 0 7	118 8 6	118 8 6	..	..	
			Do.	Do. 2nd ,, ..	..	174	12 4 1	76 2 9	76 2 9	..	..	
			Do.	Honey	..	129	3 12 0	17 3 11	17 3 11	..	..	
			Do.	Deer horns	..	598½	4 6 3	93 13 0	93 13 0	..	..	
			Do.	Wild mace	..	105	4 12 10	20 12 5	20 12 5	..	..	
			Do.	Do. nutmeg ..	..	1,428	1 2 10	60 1 7	60 1 7	..	..	
			Do.	Cinnamon flower ..	..	1,496½	3 13 4	204 15 8	204 15 8	..	..	
			Do.	Bark of Terminalia Tomentosa.	1	336	0 3 4	19 2 6	19 2 6	..	..	
			Do.	Catechu	21	560	7 9 7	12,920 0 0	12,920 0 0	..	..	
	..	Udipi Range ..	Do.	Myrabolams ..	3	6	0 8 1	122 3 3	122 3 3	..	..	
			Do.	Shegi pods	6	174	1 0 11	515 5 2	514 5 2	..	..	
			Do.	Pepper	..	221	9 12 9	77 5 0	77 5 0	..	..	
			Do.	Nux vomica ..	..	347½	0 8 7	6 11 7	6 11 7	..	..	
			Do.	Wax, 1st sort ..	..	11½	16 7 9	6 12 4	6 12 4	..	..	
			Do.	Do. 2nd ,, ..	..	108½	13 15 9	54 3 0	54 3 0	..	..	
			Do.	Honey	..	228½	2 10 0	21 1 8	21 1 8	..	..	
			Do.	Deer horns ..	..	32	4 11 11	5 6 9	5 6 9	..	..	
			Do.	Wild mace ..	..	280½	4 9 0	45 10 10	45 10 10	..	..	
			Do.	Do. nutmeg ..	..	1,447½	1 1 5	56 4 2	56 4 2	..	..	
			Do.	Cinnamon flower ..	..	146½	3 0 6	15 14 4	15 14 4	..	..	
			Do.	Beleric Myrabolams.	1	890	0 0 3	1 11 6	1 11 6	..	..	
	..	Mangalore ..	Do.	Myrabolams	..	1,456	0 11 7	37 11 2	37 11 2	..	..	
			Do.	Shegi pods ..	29	1,173	1 0 9	2,468 6 4	2,468 6 4	..	..	
			Do.	Pepper	..	118	9 7 1	*22 4 7	22 4 7	..	..	
			Do.	Nux vomica ..	4	1,406	0 14 8	340 9 8	340 9 8	..	..	
			Do.	Wax, 1st sort ..	..	16½	15 4 3	8 15 11	8 15 11	..	..	
			Do.	Do. 2nd ,, ..	..	9	11 2 11	3 9 6	3 9 6	..	..	
			Do.	Honey	..	87	3 11 2	11 7 11	11 7 11	..	..	
			Do.	Deer horns ..	..	143	4 10 0	23 3 8	23 3 8	..	..	
			Do.	Konde bark ..	1	1,228	0 10 0	77 6 7	77 6 7	..	..	
			Do.	Wood oil	..	133	9 0 0	42 12 0	42 12 0	..	..	

	Rs.	A.	P.
* Full amount	39	12	9
Deduct part of security deposit credited in October 1886	17	8	2
	22	4	7

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
				Sold locally—cont.		LB.	RS. A. P.	RS. A. P.	RS. A. P.			
South Canara—*cont.*	..	Mangalore—*cont.*	I (*e*).	Wild mace ..	3	2,041	6 0 7	* 1,837 14 3	1,837 14 3	..	..	
			Do.	Do. nutmeg ..	2	155	0 15 0	155 2 7	155 2 7	..	..	
			Do.	Cinnamon flower ..	2	1,832½	2 11 2	608 5 6	608 5 6	..	..	
			Do.	Doop	Measures 8	..	..	0 2 0	0 2 0	..	..	
			Do.	Fruits of Calophyllum Inophyllum.	..	221	0 6 5	3 2 8	3 2 8	..	..	
	..	Uppinangadi ..	Do.	Myrabolams ..	..	1,991	0 11 1	48 15 6	48 15 6	..	..	
			Do.	Shegi pods	33	1,758	0 14 6	2,454 5 3	2,454 5 3	..	..	
			Do.	Pepper	..	120½	10 2 0	43 9 4	43 9 4	..	..	
			Do.	Nux vomica ..	..	105	0 6 8	1 9 0	1 9 0	..	..	
			Do.	Wax, 1st sort ..	..	2½	13 10 5	1 3 6	1 3 6	..	..	
			Do.	Do. 2nd ,, ..	..	20	10 6 7	7 7 0	7 7 0	..	..	
			Do.	Deer horns ..	..	22	4 9 9	3 10 0	3 10 0	..	..	
			Do.	Wood oil	..	56	10 0 0	20 0 0	20 0 0	..	..	
			Do.	Wild mace ..	..	692	5 3 4	128 13 2	128 13 2	..	..	
			Do.	Do. nutmeg ..	3	1,252	0 12 11	229 10 1	229 10 1	..	..	
			Do.	Cinnamon flowers ..	..	9	2 8 5	0 13 0	0 13 0	..	..	
			Do.	Doop	Measures. 89½	..	2 14 11	9 6 0	9 6 0	..	..	
	..	Kásaragód ..	Do.	Shegi pods	..	63	1 3 7	2 12 0	2 12 0	..	..	
			Do.	Wax, 1st sort ..	..	22½	16 14 0	13 9 0	13 9 0	..	..	
			Do.	Honey	..	70	3 2 11	7 15 3	7 15 3	..	..	
			Do.	Deer horns	..	22	4 9 9	* 3 10 0	3 10 0	..	..	
				Total of I (*e*) ..	..	..	..	27,838 1 0	27,838 1 0	..	..	
				Total of district ..	..	..	..	41,250 3 3	41,365 3 3	..	..	
				Grand Total ..	..	..	..	1,87,369 6 8	1,90,130 3 11	..	..	

* Full amount .. .. .. RS. A. P. 1,887 14 3
Deduct amount of security deposit credited in October 1886. 50 0 0
1,837 14 3

Sales of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head	Description of timber and other produce.	Number or quantity	Tons.	Rate.	Sold from depôt.	Sold from forest.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.	Remarks.
							RS. A. P.	RS A. P.	RS. A. P.			
..	..	..	I (*a*).	..	..	3,992	..	66,650 13 7	42,009 1 2	..	..	
			I (*b*).			9,758		11,533 7 1	29,195 12 6			
			I (*c*).			316		641 1 1	210 10 10			
			I (*d*).			3		684 12 11	5 0 0			
			I (*e*).			348		8,500 12 6	27,937 15 0			
				Total ..	..	14,417	..	88,010 15 2	99,358 7 6	..	..	

Abstract of amount realized.

				RS. A. P.
Grand Total of sales during the year both from depot and forests ..	..	1,87,369 6 8	I (*a*).	1,10,527 15 10
Add outstandings due from previous year as per form No. 66 ..	..	4,678 9 8	I (*b*).	41,668 7 9
			I (*c*).	804 3 11
			I (*d*).	689 12 11
			I (*e*).	36,439 11 6
Total ..	..	1,92,048 0 4		1,90,130 3 11
Deduct amount realized during the year ..	..	1,90,130 3 11		..
Balance outstanding on 31st March 1888, as per form No. 66 ..	..	1,917 12 5		..

Districtwar Abstract of Form No. 71 showing Sales of Timber and other Produce both in the Depôt and the Forest during 1887-88.

District.	Timbers.						Firewood and charcoal.	Bamboos.	Sandal-wood.	Minor produce.	Total of all produce.	Remarks.
	Teak.	Black or rosewood.	Vengai.	Other timbers.	Total.	Equivalent in tons.						
	C. FT.	C. FT.	C. FT.	C. FT.	C. FT.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	
Chingleput	..	..	..	..	..	..	252 *k* 52	..	..	..	304	*a* Equivalent of 574 saplings sold as firewood.
North Arcot	..	..	..	*c* 310	310	8	1,513 *l* 22	*q* 10	..	..	1,553	*b* Estimate of 150 poles. *c* Do. of 2 pieces.
South Arcot	..	..	427	5,723 *f* 30 *g* 152	6,332	158	2,636 *m* —4	1	..	27 *s* 7	2,825	*d* Do. of 870 square feet. *e* Do. of No. 31. *f* Do. of ,, 3.
Salem	3	..	2	1,217	1,222	31	70	11	3	..	115	*g* Timber sold as firewood.
Trichinopoly	..	..	..	70 *h* 210	280	7	4,182 *n* 2	1	..	..	4,192	*h* Estimate of No. 21. *i* Do. of ,, 441.
Tanjore	..	..	..	..	..	..	111	..	..	..	111	*k* Difference between 65 tons of firewood and 13 tons of charcoal into which the former was converted and sold.
North Coimbatore	..	*c* 30	..	..	30	1	..	..	..	..	1	
South Coimbatore	12,484	3,161	18	3,953	19,556	489	..	..	..	68 *t* 24	581	*l* Estimate of No. 175.
Madura	61	395	1,628 *d* 73	286	2,443	61	360	..	..	..	421	*m* Deducted being timber sold as firewood. *n* Estimate of No. 112.
Tinnevelly	..	..	7	4,138 *i* 4,418	8,563	214	118	5	..	..	337	*o* Do. of ,, 3567.
North Malabar	38,296	13,709	..	663	52,668	1,316	..	..	..	..	1,316	*p* Deducted being timber sold as firewood.
South Malabar	27,275 *a* 305	1,538	..	18,922	48,040	1,201	*o* 94 *p* —7	*r* 288	..	2	1,578	*q* Estimate of No. 500 bamboos. *r* Do. of ,, 14414.
South Canara	*b* 17	1,951	303	17,962	20,233	506	357	..	..	220	1,083	*s* Do. of ,, 8196. *t* Do. of ,, 29160.
Total ..	78,441	20,724	2,458	58,054	159,677	3,992	9,758	316	3	348	14,417	

Annual Form No. 72-A.

Forest Department, Madras, Southern Circle,

Timber and other Produce cut, collected, and removed from the forests by consumers or purchasers, including pasture, during the year 1887-88.

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Chingleput ...	Classified timber	C. ft. 79,871	6,663	6,663	II (*a*).
	Firewood	Tons 5,901 Lb. 1,500½	5,875	5,875	
	Charcoal	Tons 1	5	5	
	Palmyra	..	345	345	
	Total ..	Tons 5,902 Lb. 1,500½	6,225	6,225	II (*b*).
	Bamboos	Tons 104 Lb. 224	265	265	II (*c*).
	Grazing fees and grass	..	1,244	1,244	II (*d*).
	Leaves for manure	Tons 2,197¾	1,033	1,033	
	Stones and earth	,, 659¾	69	69	
	Rent on fruit trees	..	306	306	
	Do on palmyra produce	..	741	741	
	Other minor produce	..	2,348	2,348	
	Total ..	Tons 2,857	4,497	4,497	II (*e*).
	Total of district ..	..	18,894	18,894	
North Arcot ..	Timber	C. ft. 105,405½ Trees 45	9,925	9,925	II (*a*).
	Firewood	Tons 23,052 Lb. 1,827 No. 16	22,103	22,103	
	Railway fuel	Tons 11,465½	17,281	17,281	
	Charcoal	Tons 653 Lb. 2,212	3,272	3,272	
	Add outstandings from previous year ..	..	..	48	
	Total ..	Tons 35,172 Lb. 119 No. 16	42,656	42,704	II (*b*).
	Bamboos	Tons 6,602 Lb. 2,016	19,434	19,434	II (*c*).
	Grazing and fodder grass	..	30	30	II (*d*).
	Minor products	..	21,106	21,106	II (*e*).
	Total of district ..	..	93,151	93,199	
South Arcot ..	Classified timber	C. ft. 47,656⅝	5,922	5,922	
	Timber sold from poramboke lands	,, 6,418	652	652	
	Casuarina timber	,, 337	160	160	
	Palmyra trees	No. 857	966	966	
	Miscellaneous trees	,, 35	219	219	
	Total ..	C. ft. 54,411⅝ No. 892	7,919	7,919	
	Deduct amount of sales on account of outstandings of previous years.	..	167	..	
	Total ..	..	7,752	7,919	II (*a*).
	Firewood	Tons 11,902 Lb. 2,194	14,330	14,330	
	Miscellaneous trees	No. 9,412	33	33	
	Charcoal	Tons 54,952	301	301	
	Total ..	Tons 11,957 Lb. 916 No. 9,412	14,664	14,664	II (*b*).

Timber and other Produce cut, collected and removed from the forests, &c.—*cont.*

District	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks
			Rs.	Rs.	
South Arcot—*cont.*	Bamboos	Tons 484, Lb. 1,400, No. 88	2,472	2,472	II (*c*).
	Grazing fees		2,215	2,215	
	Fodder grass	Tons 10, Lb. 616	11	11	
	Total		2,226	2,226	II (*d*).
	Barks	Tons 587, Lb. 2,119	5,357	5,357	
	Leaves	Tons 3,765, Lb. 1,632, No 57,000	2,323	2,323	
	Seeds	Tons 10	187	187	
	Fruits	,, 32	1,331	1,331	
		and leases.			
	Stones	Tons 534, Lb. 1,120	103	103	
	Tree rents		35,864	35,864	
	Other minor produce	Tons 303, Lb. 866	661	661	
	Total	Tons 5,233, Lb. 1,257, No. 57,000	45,826	45,826	II (*c*).
	Total of district		72,940	73,107	
Salem	Timber	C. ft. 173,593	17,166	17,166	II (*c*).
	Firewood	Tons 18,498, Lb. 896	12,424	12,424	
	Engine fuel	Tons 1,807, Lb. 1,120	1,808	1,808	
	Charcoal	Tons 1,906, Lb. 1,304	9,001	9,001	
	Total	Tons 22,212, Lb. 1,080	23,233	23,233	II.(*b*).
	Bamboos	Tons 10,169, Lb. 1,904	29,069	29,069	II (*c*).
	Barks	Tons 6, Lb. 1,661½	47	47	
	Stones	Tons 12	3	3	
	Fruit trees		5,081	5,081	
	Tope sales		2,300	2,300	
	Tree rent		13,172	13,172	
	Minor produce contract		32,091	32,091	
	Other minor produce	Tons 164, Lb. 140	137	137	
	Total	Tons 182, Lb. 1,801½	52,831	52,831	II (*c*).
	Total of district		1,22,299	1,22,299	
Trichinopoly	Classified timber	C. ft. 204,016	14,083	14,077	
	Miscellaneous trees	No. 76	138	138	
	Total	204,092	14,221	14,215	II (*a*).
	Firewood	Tons 10,307, Lb 419	6,455	6,404	
	Charcoal	Tons 8, Lb. 1,960	44	44	
	Total	Tons 10,316, Lb. 139	6,499	6,448	II (*b*).

Timber and other Produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Trichinopoly—*cont.*	Bamboos	Tons 1,592; Lb. 215; No. 1,449	4,253	4,253	II (*c*).
	Grass	..	5,033	5,140	II (*d*).
	Barks	Tons 16; Lb. 1,568	110	110	
	Leaves for manure	Tons 1,824; Lb. 952	1,186	1,186	
	Other minor produce	..	3,586	3,589	
	Total	Tons 1,846; Lb. 280	4,882	4,885	II (*e*).
	Total of district	..	34,888	34,941	
Tanjore	Classified timber	C. ft. 3,701	316	316	
	Palmyra, &c., trees	No. 58	169	169	
	Total	..	485	485	II (*a*).
	Firewood	Tons 4,208; Lb. 1,392	5,361	5,361	
	Charcoal	Tons 20; Lb. 2,232	105	105	
	Total	Tons 4,229; Lb. 1,384	5,466	5,466	II (*b*).
	Bamboos	Tons 30; Lb. 336	79	79	II (*c*).
	Grazing fees	..	593	593	II (*d*).
	Minor produce	..	2,196	2,188	II (*e*).
	Total of district	..	8,819	8,811	
North Coimbatore.	Timber	C. ft. 41,241	5,230	5,230	II (*a*).
	Firewood	Tons 8,685	5,869	5,869	
	Charcoal	Tons 32; Lb. 19	165	165	
	Total	Tons 8,717; Lb. 19	6,034	6,034	II (*b*).
	Bamboos	Tons 4,142½	11,264	11,264	II (*c*).
	Grazing and fodder grass	..	29,049	29,049	II (*d*).
	Minor produce	..	4,135	4,135	
	Lease of do.	..	9,925	9,925	
	Tree rents	..	17,606	17,760	
	Total	..	31,666	31,820	II (*e*).
	Total of district	..	83,243	83,397	
South Coimbatore.	Miscellaneous timber	C. ft. 20,274	1,878	1,878	
	Do. spokes, felloes, &c.	,, 4,800; No. 961	3,005	3,005	
	Total	C. ft. 25,074; No. 961	4,883	4,883	II (*a*).
	Firewood	Tons 13,785	8,653	8,653	
	Charcoal	,, 144	722	722	
	Billet-wood, faggot-wood, &c.	..	2,050	2,050	
	Total	Tons 13,929	11,425	11,425	II (*b*).

Timber and other Produce cut, collected and removed from the forests, &c.— *cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
South Coimbatore —*cont.*	Bamboos	Tons 1,494	4,967	4,967	II (*c*).
	Grazing fees	..	5,463	5,463	
	Grass	..	121	121	
	Total ..	..	5,584	5,584	II (*d*).
	Minor produce	..	14,089	14,167	II (*e*).
	Total of district ..	..	40,948	41,026	
Madura	Vengai	C. ft. 11,791	4,408	4,408	
	Blackwood	,, 100	29	29	
	Teak	,, 80	20	20	
	Junglewood	,, 315,030	12,886	12,886	
	Miscellaneous timbers	,, 1,821	340	340	
	Amount remitted by tank-bed contractors ..	..	1,417	1,417	
	Add as per Examiner's books	..	531	..	
	Total ..	C. ft. 328,822	19,631	19,100	II (*a*).
	Firewood	Tons 10,882 Lb. 266	8,736	8,736	
	Charcoal	Tons 249 Lb. 1,702	1,219	1,219	
	Total ..	Tons 11,131 Lb. 1,968	9,955	9,955	II (*b*).
	Bamboos	Tons 892 Lb 616	2,600	2,600	II (*c*).
	Grazing fees	..	1,524	1,524	II (*d*).
	Stones	Tons 14,898 Lb. 2,202	2,089	2,089	
	Manure leaves	Tons 454 Lb. 224	296	296	
	Barks	,, 1,960	5	5	
	Tree tax	..	343	343	
	Cardamom assessment	..	3,046	3,046	
	Instalment amount of minor produce contract.	..	13,606	13,606	
	Other minor produce	Tons 323 Lb. 1,232	554	554	
	Add as per Examiner's books	..	582	..	
	Total ..	Tons 15,677 Lb. 1,138	20,521	19,939	II (*e*).
	Total of district ..	..	54,231	53,118	
Tinnevelly	Kongu	C. ft. 190	90	90	
	Vengai	,, 319	112	112	
	Miscellaneous timber	,, 7,134	2,279	2,279	
	Classified trees	,, 30,416	8,311	8,310	
	Miscellaneous trees	,, 1,498	400	400	
	Total ..	C. ft. 39,557	6,192	6,191	II (*a*).
	Firewood	Tons 10,791 Lb. 286 Tons 217	18,664	18,662	
	Charcoal	Tons 945 Lb. 1,540	5,206	5,206	
	Total ..	Tons 11,953 Lb. 1,826	23,870	23,868	II (*b*).
	Bamboos	Tons 123 Lb. 1,293	560	560	II (*c*).
	Grazing fees	..	596	596	
	Outstandings of previous year realized ..	..	..	13	
	Total ..	..	596	609	II (*d*).

Timber and other Produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks
			Rs.	Rs.	
Tinnevelly—*cont.*	Minor produce	..	17,696	17,617	II (*e*).
	Total of district ..	..	48,914	48,845	
North Malabar ..	Teak pieces	C. ft. 666½	166	166	
	Miscellaneous trees	No. 27	139	139	
	Advance for timber	..	500	500	
	Total ..	C. ft. 666½ / No. 27	805	805	II (*a*).
	Bamboos	No. 16,361	247	247	II (*c*).
	Amount of minor produce contract	..	4,441	4,441	II (*e*).
	Total of district ..	..	5,493	5,493	
South Malabar ..	Teak	C. ft. 509	623	623	
	Miscellaneous timber	,, 7,000	1,702	1,792	
	Teak poles and scantlings	No. 8,774	932	932	
	Miscellaneous poles	,, 406	203	203	
	Total ..	C. ft. 7,509 / No. 9,180	3,550	3,550	II (*a*).
	Firewood	Tons 5,493	2,642	2,642	
	Charcoal	,, 36	90	90	
	Total ..	Tons 5,529	2,732	2,732	II (*b*).
	Bamboos	Tons 11 / Lb. 616 / No. 15,658	755	464	II (*c*).
	Grass	..	27	27	II (*d*).
	Minor forest produce	..	359	359	II (*e*).
	Total of district ..	..	7,423	7,132	
South Canara ..	Reserved and unreserved timber	C. ft. 111½	44	44	
	Do. classified and other trees	No. 631	2,604	2,604	
	Add as per Examiner's books	..	103	103	
	Total ..	..	2,751	2,751	II (*a*).
	Firewood	Tons 6,288 / Lb. 2,053	4,716	4,716	
	Charcoal	Tons 66 / Lb. 840	199	199	
	Balance of the amount of the sandal-oil still contract for season, 1886-87.	..	933	933	
	Materials used by timber contractor ..	Tons 2 / Lb. 1,213	2	2	
	Add as per Examiner's books	..	14	14	
	Total ..	..	5,864	5,864	II (*b*).
	Bamboos	No. 44,335	571	571	
	Add as per Examiner's books	..	9	9	
	Total ..	..	580	580	II (*c*).
	Grass	..	12	12	II (*d*).
	Leaves	Tons 26 / Lb. 1,936	14	14	
	Assessment on Neriya cardamom estate ..	..	3,000	3,000	
	Tree rent	..	1,026	1,026	
	Other minor produce	..	57	57	
	Add as per Examiner's adjustment	..	15	14	
	Total ..	..	4,112	4,111	II (*e*).
	Total of district ..	..	13,319	13,318	
	Grand Total of all districts ..	..	6,04,562	6,03,580	

ABSTRACT.

Districts.	Timber.		Firewood and Charcoal.			Bamboos.			Minor produce.		
	C. FT.	NO.	TONS.	LB.	NO.	TONS.	LB.	NO.	TONS.	LB.	NO.
Chingleput ..	79,871	..	5,902	1,500½	..	104	224	..	2,857	..	..
North Arcot ..	105,405½	45	35,172	119	16	6,602	2,016	..	..	..	..
South Arcot ..	54,411½	892	11,957	916	9,412	484	1,400	88	5,233	1,257	57,000
Salem	173,593	..	22,212	1,080	..	10,169	1,904	..	182	1,801½	..
Trichinopoly ..	204,016	76	10,316	139	..	1,592	215	1,449	1,846	280	..
Tanjore	3,701	58	4,229	1,384	..	30	336	..	..	..	..
North Coimbatore.	41,241	..	8,717	19	..	4,142	560	..	..	..	..
South do. ..	25,074	961	13,929	..	..	1,494	..	..	..	..	..
Madura	328,822	..	11,131	1,968	..	892	616	..	15,677	1,138	..
Tinnevelly ..	39,557	..	11,953	1,826	..	123	1,293	..	..	..	..
North Malabar ..	666½	27	..	..	..	..	..	16,361	..	..	..
South do. ..	7,509	9,180	5,529	..	..	11	616	15,658	..	..	..
South Canara ..	111½	631	6,357	1,866	..	..	..	44,335	26	1,936	..
Total ..	1,063,979	..	147,408	1,857	..	25,647	220	..	25,823	1,932½	..
	* 31,009	..	† 2,324	..	..	‡ 1,558	..	..	§ 57	..	..
	1,094,988= Ts. 27,375	..	149,732	1,857	..	27,205	2,220	..	25,880	1,932½	..

* Represents the estimate of 11,870 trees and poles.
Do. do. of 9,428 trees.

‡ Represents the estimate of 77,891 bamboos.
§ Do. do. of 57,000 palmyra leaves.

	Sales. RS.	Actually realized. RS.
II (*a*) Timber	99,254	98,883
II (*b*) Firewood and Charcoal	1,58,623	1,58,618
II (*c*) Bamboos	76,545	76,254
II (*d*) Grazing and Fodder grass	45,918	46,038
II (*e*) Grass and other minor produce	2,24,222	2,23,787
Total ..	6,04,562	6,03,580
Add outstandings due from previous year as per form No. 66	25,922	
Total ..	6,30,484	
Deduct amount realized during the year	6,03,580	
Balance ..	26,904	
Deduct arrears of tree rents in North Coimbatore, written off the accounts as per G.O., dated 19th August 1887, Mis. No. 4897, Revenue Department ..	19,200	
Balance outstanding on 31st March 1888 as per form No. 66	7,704	

Annual Form No. 72-B.

Forest Department, Madras, Southern Circle.

Timber and other Produce confiscated during the year 1887-88.

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
Chingleput ..	Junglewood	C. ft. 126	28	28	III.
	Firewood	TONS. LB. 9 2,030			
North Arcot ..	Miscellaneous timber	C. ft. 221 / No. 103	129	129	
	Firewood and charcoal	TONS. LB. 22 224	75	75	
	Bamboos	1 616	12	12	
	Minor produce	8 952 / No. 76	22	22	
	Total ..	..	238	238	III.
South Arcot ..	Teak rafters	C. ft. 10	5	5	
	Miscellaneous timber	,, 349½ / No. 423	177	177	
	Firewood	TONS. LB. 51 1,475	100	100	
	Charcoal	0 168	1	1	
	Bamboos	1 896	8	8	
	Minor produce	35 1,848 / No. 1,321	69	69	
	Total ..	..	360	360	III.
Salem	Teak	C. ft. 8	2	2	
	Classified timbers	,, 323	62	62	
	Junglewood	,, 1,178½	117	117	
	Miscellaneous timbers	,, 457 / No. 89	91	91	
	Firewood	TONS. LB. 25 1,736	68	68	
	Charcoal	0 1,120	5	5	
	Bamboos	10 952 / No. 15	57	57	
	Sandalwood	TONS. LB. 0 4½	1	1	
	Minor produce	0 1,120	22	22	
	Total ..	..	425	425	III.
Trichinopoly ..	Timber	C. ft. 23	14	14	
	Firewood	TONS. LB. 13 140	88	88	
	Bamboos	No. 493	10	10	
	Minor produce	..	75	75	
	Total ..	..	187	187	III.
Tanjore	Firewood	TONS. LB. 2 672	10	10	III.
North Coimbatore.	Miscellaneous timber	C. ft. 58½ / No. 8	45	45	
	Firewood	TONS. LB. 2 448	6	6	
	Bamboos	1 896	6	6	
	Sandalwood	0 100	2	2	
	Minor produce	1 448 / No. 2	19	19	
	Total ..	..	78	78	III.

Timber and other Produce confiscated during the year 1887-88—*cont.*

District.	Produce removed — Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
			Rs.	Rs.	
South Coimbatore.	Timber	C. ft. 400 No. 30	384	384	
	Firewood	TONS. LB. 10 1,344 No. 18	22	22	
	Bamboos	TONS. LB. 0 1,120	2	2	
	Minor produce	0 168	4	4	
	Total	...	412	412	III.
Madura	Vengai	C. ft. 40	31	31	
	Blackwood	,, 34½	30	30	
	Teak	,, 35½	20	20	
	Junglewood	,, 1,094	118	116	
	Miscellaneous timbers	,, 100	15	15	
	Firewood	TONS. LB. 26 1,736	72	72	
	Charcoal	4 56	26	26	
	Bamboos	0 560	1	1	
	Minor produce	10 784	135	135	
	Total	..	448	448	III.
Tinnevelly	Timber	C. ft. 185			
	Firewood	TONS. LB. 33 1,176			
	Charcoal	5 1,008	281	281	III.
	Bamboos	0 280			
	Minor produce	7 672 No. 111			
North Malabar	Jack and junglewood	..	18	18	III.
South Malabar	Timbers	C. ft. 385	79	79	
	Bamboos	Bundles 22	1	1	
	Total	..	80	80	III
South Canara	Timbers	No. 159	101	101	
	Firewood	TONS. LB. 28 67 No. 4 stacks	66	66	
	Bamboos	,, 154	1	1	
	Minor produce	TONS. LB. 0 22½ No. 65	18	18	
	Add as per Examiner's figure for which District Forest-officer has not furnished details.	..	..	303	
	Tota	..	186	489	III.
	Grand Total	..	..	3,054	

Abstract of Form No. 72-B.

District.	Timber.	Sandalwood.	Firewood and charcoal.	Bamboos.	Minor produce.
		TONS. LB.	TONS. LB.	TONS. LB.	TONS. LB.
Chingleput	C. ft. 126	..	9 2,030	..	..
North Arcot	,, 221 No. 103	..	22 224	1 616	8 952 and No. 76
South Arcot	C. ft. 359½ No. 423	..	51 1,643	1 896	35 1,848 and No. 1,321
Salem	C. ft. 1,966½ No. 89	0 4½	26 616	10 952 No. 15	0 1,120
Trichinopoly	C. ft. 23	..	13 140	..	..
Tanjore	..	..	2 672	..	..
				TONS. LB.	
North Coimbatore	C. ft. 58½ No. 8	0 100	2 448	1 896	1 448 and No. 2
South Coimbatore	C. ft. 400 No. 30	..	10 1,344 No. 18	0 1,120	0 168
			TONS. LB.		
Madura	C. ft. 1,304	..	30 1,792	0 560	10 784
Tinnevelly	,, 185	..	38 2,184	0 280	7 672 and No. 111
North Malabar			*Nil.*		
South Malabar	C. ft. 385	..	..	..	..
South Canara	No. 189	..	28 67 No. 4	No. 154	0 22½ and No. 65
	C. FT.	TONS. LB.	TONS. LB.	TONS. LB.	TONS. LB.
	5,028½ (a) + 8,420	0 104½	235 2,200 (b) + 7 0	15 840 (c) + 13 0	63 1,534½ (d) + 1 0
Total ..	C. ft. 13,448½ =Tons 336	0 104½	242 2,200	28 840	64 1,534½

(a) The estimate of 842 trees.
(b) Do. of 22 do.
(c) The estimate of 662 bamboos.
(d) Do. of 1,575 casuarina plants.

Annual Form No. 73-A.

Forest Department, Madras, Southern Circle.

Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1887-88.

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
				Rs.			Rs.	Rs.	Rs.	
Chingleput	.... ..				*Nil.*					
North Arcot ..	Redwood roots and stumps	Tons. lb. 15 ..	..	225	Tons. lb. 326 0	..	4,890	4,665	..	
	Sandalwood and roots	6 430	..	495	32 506	..	2,578	2,083	..	
	Jungle, babul and casuarina woods	191 948½	..	383	166 319½	..	332	..	51	
	Total ..	212 1,378½	..	1,103	524 825½	..	7,800	6,697	..	
South Arcot ..	Mango wood	..	..	..	No. 6	C. ft. 24 11	6	6	..	
	Firewood	Tons. lb. ..	..	..	Tons. lbs. 5 1,022	..	30	30	..	
	Sandalwood billets	2 634½	..	514	1 2,215	..	500	..	14	
	Honey	0 11	..	2	..	..	..	..	2	
	Thatching grass	1 0	..	1	..	..	..	..	1	
	Wax	..	..	..	0 4	..	1	1	..	
	Total ..	3 645½	..	517	7 1,001	..	537	20	..	
					No. 6	C. ft. 24 11				
Salem	Acha	No. 21	C. ft. 25 5	32	No. 2	C. ft. 3 1	4	..	28	
	Vengai	3	5 10	8	2	3 11	5	..	3	
	Teak post	..	..	..	2	4 4	4	4	..	
	Sandalwood	Tons. lb. 2 14	..	1,056	Ton. lb. 1 672	..	522	..	534	
	Total ..	2 14	31 3	1,096	1 672	11 4	535	..	561	
Trichinopoly ..	Firewood	Tons 212	lbs. 207	634	Ton 80	..	240	..	394	

Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1887-88 —*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
				Rs.			Rs.	Rs.	Rs.	
Tanjore	.... ..	*Nil.*								
North Coimbatore ..	Sandalwood	Ton. lb. 0 1,681¼	..	234	Ton. lb. 0 1,681¼	..	234	..	..	
South Coimbatore ..	Teak logs	No. 348	C. ft. 11,556	8,307	No. 790	C. ft. 29,217	21,000	12,693	..	
	Teak rafters	..	..	..	270	2,858	1,607	1,607	..	
	Rosewood	150	2,302	575	..	..	..	..	575	
	Dammer	..	..	..	Tons. lb. 0 93¾	..	5	5	..	
	Total ..	468	13,858	8,882	..	32,075	22,612	13,730	..	
Madura	Firewood	Tons. lb. 28 2,205	..	82	Tons. lb. 176 610	..	550	468	..	
Tinnevelly ..	Kongu logs	No. 89	C. ft. 54	54	No. 14	C. ft. 18	18	..	36	
	Miscellaneous pieces	155	..	30.	..	..	..	..	30	
	Bamboo pattais	..	..	..	Tons. lb. 4 2,025	..	129	129	..	
	Total ..	244	54	84	..	18	147	63	..	
North Malabar ..	.... ..	*Nil.*								
South Malabar ..	*Selection felling.*	No.	C. ft.		No.					
	Teak	272	3,184	4,000	..	..	..	..	3,875	
	Blackwood	108	1,444		..	..	..			
	Miscellaneous	320	4,211		20	200	125			

Abstract showing the value of Timber and other Produce at Sale Depôts for the year 1887-88—*cont.*

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.		Remarks.
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.	
	Clearings.		C. ft.	Rs.			Rs.	Rs.	Rs.	
South Malabar—*cont.*	Teak	97	1,549	1,000	..	..	..	1,000	1,000	
	Blackwood	3	52		..	..	..			
	Miscellaneous	193	2,372		..	..	..			
	Do poles	104	302		..	..	..			
	Teak saplings, superior	2,829	31,739	45,000	1,648	5,677	21,000	..	24,000	
	Do. small	2,709			1,366	2,732				
	Do. classified	47,019			13,645	7,294				
	Bamboos	7,786	= 156 Tons.	300	..	..	..	..	400	
	Kariyas	2,775	= 56 „	100	86	..	..			
	Total ..	64,215	C. ft. 44,853 Tons. 212	50,400	..	15,903	21,125	..	29,275	
		No.	C. ft.							
South Canara ..	Rosewood logs	22	417	589	..	..	..	..	589	
	Vengai	4	82	71	..	..	..	..	71	
	Miscellaneous	68	1,584	1,235	..	..	..	..	1,235	
	Total ..	94	2,083	1,895	..	..	..	..	1,895	
	Grand Total.									
	Teak	..	C. ft. 48,028	53,307	..	C. ft. 47,782	43,611	..	..	
	Rosewood	..	4,215	1,164	..	..	..	..	..	
	Vengai	..	88	79	..	4	5	..	..	
	Miscellaneous timber	..	10,298 Tons.	6,451	..	246 Tons.	153	..	..	
	Redwood roots	..	15	225	..	326	4,890	..	..	
	Firewood	..	488	1,099	..	429	1,152	..	..	
	Bamboos	..	156	300	..	5	129	..	..	
	Sandalwood roots and billets	..	12	2,299	..	36	3,834	..	..	
	Minor produce	..	1	3	..	..	6	..	..	
	Total ..	..	..	64,927	..	..	53,780	..	11,147	

ANNUAL FORM No. 73-B.

Forest Department, Madras, Southern Circle.

Abstract showing the value of Live-stock, Stores, Tools and Plant for the year 1887-88.

District.	Description of stock.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.	
		Number.	Value.	Number.	Value.	In favor of the year.	Against the year.
			Rs.		Rs.	Rs.	Rs.
Chingleput ..	Surveying instruments	4	91	17	325	234	..
	Tools	97	353	143	383	30	..
	Furniture	23	284	26	293	9	..
	Buildings	..	..	2	240	240	..
	Total ..	124	728	188	1,241	513	..
North Arcot ..	Surveying instruments	(a) 34	851	34	809	..	42
	Machinery	2	56	2	53	..	3
	Tools	667	914	678 Cwt. 32-94	1,154	240	..
	Furniture	(a) 64	(b) 267	85	507	240	..
	Buildings	40	3,906	40	3,711	..	195
	Total ..	806	5,994	839 Cwt. 32-94	6,234	240	..
South Arcot ..	Surveying instruments	17	605	17	605	..	..
	Machinery	7	256	7	271	15	..
	Tools	336	208	514	293	85	..
	Furniture	127	800	158	988	188	..
	Miscellaneous	420	941	421	1,141	200	..
	Buildings	9	2,365	9	2,865	500	..
	Live-stock	2	20	2	20	..	..
	Total ..	918	5,195	1,128	6,183	988	..
Salem	Surveying and other instruments	43	811	47	966	155	..
	Tools	125	382	197	820	438	..
	Furniture	16	115	16	115	..	..
	Miscellaneous	7	28	7	28	..	..
	Buildings	..	..	3	75	75	..
	Total ..	191	1,336	270	2,004	668	..
Trichinopoly ..	Surveying and other instruments	4	307	6	325	18	..
	Tools	715	788	724	809	21	..
	Furniture	45	353	45	352	..	1
	Buildings	13	1,565	13	1,615	50	..
	Miscellaneous	133	549	133	549	..	..
	Live-stock	20	538	20	537	..	1
	Total ..	930	4,100	941	4,187	87	..
Tanjore	Surveying and other instruments	19	..	19	..	..	..
	Tools	206	..	213	16	16	..
	Furniture	20	..	20	..	..	..
	Miscellaneous	20	..	21	17	17	..
	Buildings	4	280	4	323	43	..
	Total ..	269	280	277	356	76	..
North Coimbatore	Surveying and other instruments	(c) 11	51	14	55	4	..
	Tools	758	328	997	991	663	..
	Furniture	170	47	183	190	143	..
	Buildings	(d) 18	1,270	35	3,645	2,375	..
	Total ..	957	1,696	1,229	4,881	3,185	..

(a) The differences are due to erroneous classification in previous year.
(b) District Forest-officer has increased the value by Rs. 14.
(c) 10 in previous return is a clerical error.
(d) 19 in previous return is a clerical error.

Abstract showing the value of Live-stock, Stores, Tools and Plant, &c.—*cont.*

District.	Description of stock.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.	
		Number.	Value.	Number.	Value.	In favor of the year.	Against the year.
			Rs.		Rs.	Rs.	Rs.
South Coimbatore	Surveying and other instruments	36	..	39	59	59	..
	Tools	380	..	381	..	..	..
	Furniture	152	24	152	24	..	..
	Miscellaneous	7	..	7	..	..	..
	Buildings	..	..	29	157	157	..
	Total	575	24	608	240	216	..
Madura	Surveying and other instruments	21	439	22	491	52	..
	Machinery	1	18	1	18	..	..
	Tools	82	197	103	387	190	..
	Furniture	69	85	81	183	98	..
	Buildings	62	3,452	66	3,772	320	..
	Live-stock	4	..	6	120	120	..
	Total	239	4,191	279	4,971	780	..
Tinnevelly	Surveying and other instruments	27	533	27	548	15	..
	Tools	231	(*e*) 343	262	436	93	..
	Furniture	248	1,291	269	1,405	114	..
	Buildings	63	3,847	67	5,372	1,525	..
	Total	569	6,014	625	7,761	1,747	..
North Malabar	Surveying and other instruments	13	406	33	407	1	..
	Tools	12	(*f*) 179	13	194	15	..
	Furniture	..	..	2	1	1	..
	Miscellaneous	(*g*) 19	192	27	220	28	..
	Live-stock	16	(*i*)15,006	11	14,192	..	814
	Buildings	..	..	8	1,567	1,567	..
	Total	60	15,783	94	16,581	798	..
South Malabar	Surveying and other instruments	2	..	13	304	304	..
	Machinery	13	54	18	90	36	..
	Tools	537	223	641	335	112	..
	Furniture	34	149	38	149	..	..
	Buildings	12	386	17	5,128	4,742	..
	Miscellaneous	136	531	164	596	65	..
	Building materials	..	..	10,000	126	126	..
	Live-stock	8	..	12	(*k*) 4,002	4,002	..
	Total	742	1,343	10,903	10,730	9,387	..
South Canara	Surveying instruments	44	..	43	..	..	..
	Tools	(*h*) 331	..	369	..	..	..
	Machinery	1	..	1	..	..	..
	Furniture	82	..	90	..	..	..
	Buildings	12	..	15	170	170	..
	Miscellaneous	252	..	256	..	..	..
	Total	722	..	774	170	170	..
Grand Total	Surveying and other instruments	275	4,094	331	4,894	800	..
	Tools	4,477	3,915	5,235	5,818	1,903	..
	Machinery	24	384	29	432	48	..
	Furniture	1,050	3,415	1,165	4,207	792	..
	Buildings	233	17,095	308	28,664	11,569	..
	Building materials	..	..	10,000	126	126	..
	Live-stock	50	15,564	51	18,871	3,307	..
	Miscellaneous	994	2,241	1,036	2,551	310	..
	Total	7,103	46,708	18,155	65,563	18,855	..

(*e*) 243 in previous return is a clerical error.
(*f*) Less by Rs. 26 as given by District Forest-officer.
(*g*) Less by 12 articles as given by District Forest-officer.
(*h*) The difference, 4, is due to clerical error in previous year's return.
(*i*) Rs. 4,600 omitted in previous return is now supplied.
(*k*) Includes Rs. 3,300 value of two elephants purchased for South Coimbatore.
11. Tools and 32. Miscellaneous in previous year's return are clerical errors for 12 and 31 respectively.

ANNUAL FORM No. 74.

Forest Department, Madras.

Statement of Elephants in Southern Circle during the year 1887-88.

PART I.

Elephants in possession of the reporting officers throughout the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep including servants and food.		Remarks.
	Elephants.			RS. A. P.	
North Malabar ..	1. Chloe	Purchased in January 1878.	Per head ..	27 0 0	
	2. Phyllis				
	3. Lakshmi	Transferred from Anaimalais in May 1881.			
	4. Sankara				
	5. Ranee	Captured in June 1885 ..			
	6. Maharajah	Captured in the Government pit at Trans Beni during 1886-87.			
	7. Jumboo				
South Malabar ..	1. Vixen	Transferred from Wynaad in 1882.	Do. ..	27 0 0	
	2 Peyroo				
	3 Sampson	Purchased from Mr. Morgan in 1884.			
	4. Eva				
	5. Thoebaw	Captured on 3rd January 1886.			
	6. Lucy	Captured on 15th February 1886.			
	7. Juno	Captured on 17th February 1886.			
	8. W. Juno	Purchased on 15th December 1886			
	Other Cattle.				
South Arcot ..	1. Vellian } Buffaloes.	Purchased in November 1885.	Per head ..	0 12 0	
	2. Karuppan }				
Trichinopoly ..	Twenty bullocks, *i.e.*, 10 pairs.	Purchased in April 1885 and April 1886.	Do. ..	3 7 0	
South Coimbatore.	One bullock	Transferred from the late Jungle Conservancy Department during 1882 83.	..	..	
Madura	Two Kodaikánal depot bullocks.	Purchased in the local market in April 1885.	Per head ..	8 0 0	
	Two Navinipatti garden bullocks.	Purchased on the 31st March 1886.			
North Malabar ..	Nine Coorg buffaloes ..	Purchased in 1884-85 ..	..	..	

PART II.

Elephants received in the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.		Remarks.
	Elephants.			RS. A. P.	
North Malabar ..	....	....	..	..	
South Malabar ..	1. Jupiter	July 1887	Per head ..	20 0 0	
	2. Mars				
	3. Parvathi	....	..	..	Purchased at end of the year for South Coimbatore.
	4. Karthiamma				
	Other Cattle.				
South Arcot ..	....	....	..	..	
Trichinopoly ..	....	....	..	..	
South Coimbatore.	....	....	..	..	
Madura	Two ponies for Kodaikánal depot.	Purchased in the local market in January 1888.	Per head ..	21 0 0	
North Malabar ..	....	....	..	..	

Part III.

Elephants gone off the list during the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.		How disposed of.
	Elephants.			Rs. A. P.	
North Malabar ..	....	....	..	..	
South Malabar ..	....	....	..	..	
	Other Cattle.				
South Arcot ..	....	....	..	..	
Trichinopoly ..	....	....	..	..	
South Coimbatore..	One bullock	....	...	..	Transferred to Collector's charge.
Madura	....	....	..	..	
North Malabar ..	One Coorg buffalo ..	1884-85	..	..	Died in April 1887.
	Do.	Do.	..	..	Do. in July 1887.
	Three Coorg buffaloes ..	Do.	..	..	Do. in March 1888.

OFFICE OF CONSERVATOR OF FORESTS, N.C.,

No. MADRAS, 18th July 1888.

From

A. W. PEET, Esq.,

ACTING CONSERVATOR OF FORESTS,

Northern Circle.

To

THE SECRETARY TO THE COMMISSIONERS

OF LAND REVENUE,

MADRAS.

SIR,

I have the honor to forward the annual Forest Administration Report for the Northern Circle for the year 1887-88.

I have the honor to be,

Sir,

Your most obedient Servant,

Acting Conservator of Forests, N.C.

PROGRESS REPORT

OF

FOREST ADMINISTRATION IN THE NORTHERN CIRCLE, MADRAS,

FOR THE YEAR 1887-88.

By A. W. PEET, Esq., Acting Conservator of Forests.

CHAPTER I.

Introductory Remarks.

Mr. J. S. Gamble gave over charge of the Circle on 7th April 1887 to Mr. A. W. Peet. The Acting Conservator visited during the year Nellore, Kurnool, Cuddapah, Bellary, Anantapur, Ganjam, Godávari, Kistna and of course the Nílgiris. In Nellore, he visited almost all the plantations and gave personal instructions as to working, and went across the district with the District Forest-officer to Cuddapah. His main object was to confer with and advise the District Forest-officer as regards settlement, the details of which were unusually intricate in this district, and of paramount importance.

2. In Cuddapah no regular tour was made, as the rains were on and the camp was broken up by cholera, one death occurring. The Acting Conservator went on to Nandyál, Kurnool district, without a camp, and conferred with the District Forest-officer, who afterwards accompanied him to Bellary to give the benefit of his advice, as Mr. Hooper (District Forest-officer, Kurnool) had formerly been in charge of the Bellary district, which was new both to Mr. Sweet and to the Acting Conservator. Mr. Sweet was in charge both of Bellary and Anantapur and a tour was made with him in the latter district. The Acting Conservator sent in no formal inspection notes for these districts, as he was only learning the working himself, and made no attempt at suggesting a new policy. Formal inspection notes were sent in for Ganjam and Godávari where more time was spent, and certain alterations seemed advisable in the disposition of establishments. There was no District Forest-officer to spare for Vizagapatam, and proposals were made to put the Northern part under the District Forest-officer of Ganjam, and the Southern under the District Forest-officer of Godávari. The Acting Conservator met the Collectors of Ganjam, Godávari, Nellore, Cuddapah, Bellary and the Nílgiris during the year, but missed the Collector of Kurnool (the head-quarters being much off the line of the forests), Anantapur, Kistna and Vizagapatam; the three latter Collectors were away on tour.

3. The Circle was very short of officers during the year—

Ganjam lost its permanent District Forest-officer for six months, and his place had to be taken by an inexperienced Sub-Assistant.

Nellore lost its permanent District Forest-officer early in the year.

Cuddapah lost its permanent District Forest-officer in July.

Bellary and Anantapur were classed as one charge, and had to be placed under an Assistant Conservator, who had had but little experience, and who was suffering constantly from fever.

Vizagapatam had no separate District Forest-officer at all.

4. The following list shows the time spent in camp by the different officers :—

District.	Officer in charge.	Time in charge.	Days in camp.
Ganjam	Mr. A. W. Lushington, Assistant Conservator	173	153
	,, C. L. Toussaint, Sub-Assistant do.	152	95
Godávari	,, J. S. Battie, Assistant Conservator	366	179
Kistna	,, G. Homfray, do.	366	228
Nellore	,, F. D. A. Vincent, Deputy Conservator	30	..
	,, J. H. B. Brougham, Assistant do.	336	192
Cuddapah	,, A. W. B. Higgens, Deputy Conservator	138	71
	,, F. A. Lodge, Assistant Conservator	228	123
Kurnool	,, E. D. M. Hooper, Deputy Conservator	366	257
	,, J. H. B. Brougham, Assistant Conservator	40	12
Bellary	,, H. T. D. Sweet, do.	252	74
	,, H. H. Ward, Acting Sub-Assistant	32	..
Anantapur	,, T. Somasundra Mudaliar, Sub-Assistant	268	210
Nílgiris	Colonel R. S. Jago, Deputy Conservator	264	89
	Mr. P. M. Lushington, Assistant Conservator	67	37
	T. M. Nallasawmy Naidu, Forest Ranger	35	23

During the changes necessitated by officers going on leave one or more districts were temporarily in the charge of Deputy Collectors or Collectors direct.

The time spent on tour was, with one or two exceptions, very satisfactory.

5. The chief works during the year were —

Ganjam.—Settlement of 10 reserves; selection of 9 blocks in Chicacole.

Vizagapatam.—Almost *nil.*

Godávari.—Settlement of 12 blocks in Bhadráchalam and 2 in the Delta Range completed. Settlement of 22 other blocks very nearly completed. Notification under section 4 of 8 blocks; selection of three blocks; and amended proposals sent in for certain large reserves in Juddangy and Lakkonda, originally proposed in 1886. Demarcation.

Kistna.—Settlement almost complete for all proposed reserves, except in Bezváda.

Nellore.—Settlement work very heavy. Departmental operations in Srihari-kót fuel reserve, and in the casuarina plantations.

Cuddapah.—Settlement of 46 reserves by Mr. Higgens, 6 of which are finally notified. Inspection and demarcation by Mr. Lodge. Departmental collection of redwood.

Kurnool.—Settlement. Demarcation of Nallamalais. Selection of reserves in Yerramalais. Commencement of grazing licenses.

Bellary.—Selection of 15 blocks. Settlement behindhand.

Anantapur.—Settlement of a few reserves, not however completed, except such as were taken up by the Head Assistant Collector.

Nílgiris.—Settlement nearly completed. Systematic working of forests.

6. The area of forests in the Northern Circle was increased by 150½ square miles, the changes being as follows :—

	SQ. MILES.
A. Forest reserved under Act V of 1882	+ 150½
B. Do. do. previous rules	— 17½
C. Reserved lands	34½
D. Leased forests	...
E. Other forests	...
F. Unclassed forests and waste lands	...

7. The following statement gives the details for 1887-88 :—

Class of forest.	Area on 31st March 1887.	Added during the year.	Excluded during the year.	Difference.	Area on 31st March 1888.	Source of increase and decrease.
	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	
A. Reserved forests under Act V.	474½	150½	..	+ 150½	625	150½ square miles from B and C.
B. Reserved forests under previous rules.	* 786	..	17½	— 17½	768½	* Correction. 17½ square miles are transferred to A and are included in 150½ square miles.
C. Reserved lands ..	† 6,332¾	235	{ 150½ ‡ 50 }	+ 34½	6,367¼	† The increase of 2,404¾ square miles accounts for the omission of area during 1886-87. ‡ Excluded at settlement.
D. Leased forests	198½	..	..	..	198½	
E. Other forests	..	..	..	..	..	
F. Unclassed forests and waste lands.	..	..	..	..	..	
Total ..	7,791¼	385½	218	167½	7,959¼	

CHAPTER II.

Area and Boundaries.

8. *Form No.* 59-*A* gives the area of reserved forests. At the commencement of the year, the area was 474½ square miles, at the close 625 square miles, an increase of 150½ square miles, the details being as follows :—

	SQ. MILES.
Ganjam	8½
Kistna	13
Nellore	37
Cuddapah	78
Nilgiris	14
Total ...	150½

A fraction was also added in Godávari.

9. *Form No.* 59-*B* is given in full this year as it was omitted for two years in the annual reports. It gives the area of forests reserved under orders previous to the Forest Act.

From the total areas given in the full form for the year 1884-85, have been deducted the areas transferred during 1885-86 and 1886-87—paragraph 7 of report for 1886-87.

After deducting also the area transferred during the year under report, the balance is 768½ square miles, the details being as follows :—

	SQ. MILES.
Godávari	68
Kistna	156
Nellore	218
Cuddapah	280½
Bellary	1
Anantapur	5
Nilgiris	40
Total ...	768½

10. The proposed reserves notified during the year under section 4 were as follows:—

61.	Anantapur	Nagasamudram, North Do. South Peddadoddi Bhadrampalle Pamidi Cutturmulla Jakkalacheruvu Marutla Tarramalla	Notification No. 203 of 20th May 1887.
62.	Do.	Durgam Kudair Upparapalli (Babul tract)	Notification No 205 of 20th May 1887.
63.	Godávari	Velagalapalle Chintalapudi Barrikonda Erraguntapalle Bandamcherla Tadikalapudi Ramasingavaram	Notification No. 210 of 23rd May 1887.
64.	Do.	Ramasaram	Notification No. 213 of 23rd May 1887.
65.	Nellore	Udayagiri (East) and Appasamudram.	Notification No. 243 of 1st July 1887.
66.	Do.	Griddalúr	Notification No. 245 of 1st July 1887.
67.	Do.	Bommavaram Prabagiripatnam	Notification No. 247 of 1st July 1887.
68.	Do.	Alipuram	Notification No. 250 of 1st July 1888.
69.	Godávari	Upputer	Notification No. 291 of 29th July 1888.
70.	Kistna	Bápatla, No. 2 Kothapalem, No. 2 Adavula Divi Dindi	Notification No. 350 of 11th October 1887.
71.	Do.	Kondúr	Notification No. 351 of 11th October 1887.
72.	Bellary	Gummanur, North and West. Do. North and East. Do. North	Notification No. 65 of 20th February 1888.
73.	Kurnool	West Rámallakót Lanjabanda East Rámallákót Yaipalapadu South Dhone North Dhone Gadithemadugu	Notification No. 74 of 6th March 1888.
74.	Bellary	Timmapuram	Notification No. 87 of 20th March 1888.

The numbers are carried on from last year's annual report.

11. *Form* 59-*C* gives the area of reserved lands.

A considerable rectification of area has been noted in Ganjam where nearly 166 square miles have been deducted from the figures given last year. The areas of reserved lands and proposed reserves are often very roughly calculated, and large tracts have to be given up when actual demarcation is made. It is often found that what appears on the map as a tract of waste land is honeycombed with cultivation and has to be left out of a reserve.

There is an increase of 2,494$\frac{3}{4}$ square miles, because tracts proposed under section 4 of the Forest Act have now been included under reserved lands. The details are given below:—

	Sq. miles.
Ganjam	556½
Godávari	646½
Kistna	82½
Nellore	507
Cuddapah	433
Bellary	15½
Anantapur	141½
Nílgiris	112
Total ...	2,494½

12. *Village Forests.*—No definite steps have been taken in this matter; but the wants of villagers have been considered in most of the settlements gone into during the year.

SETTLEMENT.

13. Only one reserve in Ganjam has been notified under section 16 during the year, but the settlement of six others has been completed and forwarded to Board. The settlement of three more was finished in April, eight are nearly settled, and thirteen are in hand.

No work has been done yet in Berhampore towards settling the Mohiri hills; but this should certainly be taken in hand without delay. The settlement has made fair progress in Goomsur.

Godávari.—Settlement has made fair progress. The settlement of 36 blocks is virtually finished, that of nine other blocks is in progress.

Kistna.—Special attention has been paid by Mr. Homfray to this subject, and he has spent all his available time with the Forest Settlement-officer. He was unable to go out for two months in consequence of an accident, but spent 228 days in camp out of 10 months, attending chiefly to settlement; and he deserves credit. The inquiry of the latter into claims has been finished for almost all the proposed reserves except those in the Bezváda taluk. Final notifications were submitted to Government for ten blocks during the year. The claims of agraharams in the Krósúr and Vinukonda taluks and the Pálnad caused the greatest delay to the settlement.

Nellore.—The work was especially heavy, and Mr. Brougham paid extreme attention to defending the interests of Government. Mr. Vincent before leaving had warned the Conservator that much was at stake. It was found that fresh defences had to be made in the case of several of the important claims; for instance, Mr. Vincent's defence against a claim of certain shrotriems to hill poramboke was that the surveyed boundary stopped short at the foot of the hills. However, on a reference to the Superintendent of Survey, it was found that this plea could not be maintained, and a much more elaborate defence was necessary, entailing much research into records. In all 125 blocks have been notified in this district; numerous claims have been put forward by shrotriemdars, and by the Kálahasti Rajah, who owns so large a portion of this district. The shrotriemdars' claims cannot be settled unfortunately till the boundaries of villages have been determined under Act XXVIII of 1860. The Rajah's claims are nearly settled.

The Sríharikót firewood reserve claims have been most vexatious. There were claims to land, claims of enormous extent to scattered trees held on patta, and claims by karnams and notagars to a hereditary commission, and the claims of a temple also to an annual payment. The bill sent in for trees alone was enormous, and is under revision. The claim to the trees was admitted by Mr. Tate, the former Settlement-officer.

Cuddapah.—Good progress was made during the year. Six reserves were finally notified during the year; but the settlement of no less than 40 more was finished by Mr. Higgens before he went on leave.

Kurnool.—The district report on the subject of settlement is rather indefinite. It is stated that "the settlement of the Nallamalais during the year has amounted to

but little. The work has, however, included the decision in favor of Government by the District Judge of the claims to shrotriem hill wastes advanced by the Forest Department in no less than nine instances in the eastern taluks." There is no definite information as to the cause of the delay in the settlement, or as to its state of progress.

Bellary.—Progress was very slow. The Deputy Collector of Adóni finished the settlement of the reserves in Adóni (excepting East and West), but was transferred from the district before issuing final notification. The Forest Settlement-officer appointed for the district, exclusive of Adóni and Alúr taluks, inspected certain proposed reserves, and then returned to Nellore for other duty.

Anantapur.—The work has been done by Divisional officers, and has been delayed partly by the necessity under which these officers were to attend to their other work, partly by the fact that the District Forest-officer could not attend simultaneous sittings of separate Settlement courts, and partly on account of the ill-health of the District Forest-officer.

The Head Assistant Collector settled 12 out of 14 blocks. The Anantapur Deputy Collector did not finish the settlement of Muchukota, and three more blocks remain to be settled by him. No settlement was done in the charge of the Deputy Collector, Gooty.

Nilgiris.—Settlement is very forward in this district. During the year six blocks were finally notified, and little remains to be done.

PROGRESS OF SETTLEMENT.

District.	Areas finally settled up to 31st March 1888.	Areas notified under section 4 up to 31st March 1887, but not settled.	Areas notified under section 4 in 1887-88.	Total of 3 and 4.	DEDUCT AREAS.		Balance to be settled.
					Settled in 1887-88.	Excluded, &c. in 1887-88.	
1	2	3	4	5	6		7
	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.	SQ. MILES.
Ganjam	8½	* 540½	..	540½	8½	..	532
Vizagapatam ..	..	..	8	8	..	..	8
Godávari	..	646½	65½	712	..	4	708
Kistna	13	691½	16	707½	13	8½	686
Nellore	38	* 506	7	551	37	..	476
Cuddapah	350	1,573	..	1,578	78	37½	1,457½
Kurnool	..	1,677	41½	1,71 ½	..	..	1,718½
Bellary	..	198½	3	201½	..	..	201½
Anantapur	13½	156½	87	243½	..	..	243½
Nilgiris	202	120	..	120	14	..	106
Total ..	625	6,109½	228	6,337½	150½	50	6,137½

* Rectification of area.

4. The Forest Settlement-officers employed in the different districts were:—

Ganjam.—The Senior Assistant Collector and the General Duty Deputy Collector.

Vizagapatam.—Special Assistant Collector.

Godávari.—Special Assistant Agent, the Sub-Collector, Rajahmundry, the General Duty Deputy Collector and a Special Forest Settlement-officer, Mr. Jagganadha Row.

Kistna.—A Special Forest Settlement-officer, Mr. Jagganadha Row.

Nellore. Do. do. Mr. Sarabalingam Naidu.

Cuddapah. Do. do. do.

Kurnool. Do. do. Mr. Jagganadha Row and the Deputy Collector for the Yerramalais.

Bellary.—Special Forest Settlement-officer, Mr. Sarabalingam Naidu and the General Duty Deputy Collector.

Anantapur.—Head Assistant Collector, Deputy Collector, Gooty, and Temporary Deputy Collector, Anantapur.

Nilgiris.—Head Assistant Collector and Mr. A. E. Castle-Stuart Stuart.

DEMARCATION.

15. *Ganjam.*—The number of miles cleared during the year is not readily to be ascertained from the district report, as the work of the year is not clearly separated from the work of previous years. On the whole demarcation is fairly advanced in Goomsur, especially in the eastern portion; and the lines have been almost all cut in Berhampore, but no post erected there. The charges for demarcation during the year are very high, viz., Rs. 6,535. A very large proportion of this charge is for upkeep of the lines, as a large staff of men has been employed on daily pay to act partly as watchers, partly to keep the lines clear. There are peculiar difficulties in Ganjam as the growth is so luxuriant that lines will very rapidly get overgrown, unless kept carefully cleared. However, although the extra establishment was perhaps justified while the Forest department was getting settled in the district, it must be very much diminished during the current year, and until Ganjam pays its way better.

Godávari.—Demarcation is very efficiently carried out by broad straight lines with lasting cairns and posts. One hundred and forty-one miles of preliminary demarcation were made at a cost of Rs. 757, and 122 miles of final demarcation at a cost of Rs. 1,432; the former is little over Rs. 5 a mile; the latter a little under Rs. 12 a mile. One and-a-half miles of fencing cost Rs. 46, and 115 pillars cost Rs. 83—Total cost Rs. 2,322.

Kistna.—Very good progress was made. Two hundred and six miles of demarcation were cut and 892 boundary marks erected at a cost of Rs. 4,827, about Rs. 23·4 a mile. Part of the work was very expensive because much prickly-pear had to be removed. The demarcation is by cairns in the inland taluks and by posts in the coast taluks.

Nellore.—Three hundred and seventy-five miles of demarcation were done, particular progress being made in the Kávali range under ranger R. Vencatesa Mudaliar. The average expenditure was Rs. 7·8. but deducting the value of trees sold from the line, the nett cost was only a little over Rs. 5 a mile. The demarcation included the completion of the boundaries of six reserves, the demarcation of all the casuarina plantations and part of Sríharikót, with posts surrounded by mounds of earth.

Cuddapah.—The cost in this district is still exceptionally high; but it has been much reduced by Mr. Lodge. The cairns were rather large, and too numerous; but this does not altogether account for the cost, and it is to be suspected that there was some peculation among the subordinates, which Mr. Higgens with his hands latterly full of settlement work could not check by going into the details of accounts. In Badvél particularly the rates at the beginning of the year were excessive. There is a great difficulty in this district, however, at certain seasons in getting labor. Progress during the year was good. 176½ miles were cut and 2,747 cairns erected at a cost of Rs. 4,858. Supposing a cairn to cost 12 annas, the rate of clearing per mile would be Rs. 16, which is still high. Besides this an aloe fence was raised round the Reddipalle plantation at a cost of Rs. 414 for 2½ miles.

Kurnool.—In Cumbum, 60 miles of demarcation were done at a cost of only Rs. 135, the demarcation being with posts. In Sirvel, 19 miles of demarcation were done at a cost of only Rs. 312. In Márkápur, 96 miles of demarcation were done at a cost of only Rs. 300. The cost is exceptionally low, being at an average only Rs. 4 odd a mile. It may be found necessary to supplement this demarcation with cairns, and most probably this will be necessary, but the progress is good. The demarcation of the Nallamalai forests is now practically complete with the reservation that part of this is of a preliminary nature.

In last year's annual report, the Acting Conservator stated by mistake that the Veligonda boundary was complete. That of the southern Veligonda was complete, leaving the boundaries of northern and western Veligondas to be finished. These have been completed all but 15 miles.

Bellary.—A road which is to form part of a boundary was increased by 1½ miles during the year. One hundred and eighteen miles of ordinary demarcation with posts was done at a cost of Rs. 841, rather more than Rs. 7 a mile.

Anantapur.—In Penukonda, Hindupur and Dharmavaram taluks, the preliminary demarcation of all the proposed reserves was completed. In Anantapur and Tadpatri taluks, the preliminary demarcation of Kudair and Upparapalle was also done.

The pig wall round Kottakota was continued for 2½ miles at the rate of Rs. 96 a mile. The pig wall round Guttur (West) reserve was continued for 9½ miles, but payment has not been made as the work is reported to be very badly done, and only two miles were ordered by the District Forest-officer. The Acting Conservator has unfortunately not seen the work, but is inclined to think that this wall was a great mistake. As so much work had been done, and money had been entered in the budget, he did not interfere with the work, beyond stipulating that work should be done only according to the sanctioned allotment. Mr. Sweet was so ill that he did not superintend the work personally, and the forester allowed four times the stipulated amount of work to be done, and done so badly that it is practically useless. It is presumed that the object was utterly to exclude cattle for some particular reasons, and it is obvious that this work is useless unless it is thoroughly well done. All work is now stopped, and inquiries are being made into the responsibility for the wretched fiasco of this year's operations. The Acting Conservator intends to send a report after personal inspection.

Nilgiris.—In this district the total cost incurred on demarcation during the year was Rs. 2,210, though only Rs. 1,971 was adjusted during the year.

This sum of Rs. 2,210 includes an item of Rs. 190 for repair of old demarcation. There were 125 miles of new demarcation during the year, with posts surrounded by mounds; the cost per mile is therefore Rs. 16, which is not excessive if all the work is well carried out. The work of the year included the demarcation of Kundahs, Thiashola, Mekkeru, and Hiriashigie reserves in the Melúr and Kundah ranges, eight proposed reserves in Jakkathala and Yeddapalli in Coonoor range, and 31 proposed reserves in Kótagiri range.

A statement (A) of work completed is given in the Appendix. There are not sufficient data to give reliable statistics of the work which remains to be done.

CHAPTER III.

Surveys, Working Plans and Plans of Operations.

16. *Ganjam.*—Mr. Lushington when going on leave made out a rough preliminary working plan for part of these forests, but unfortunately Mr. Toussaint did not attempt to act up to it under the mistaken idea that all operations must await the completion of the settlement. A fresh plan is now being tried by Mr. Lushington, the main points being:—

(1) Complete rest for reserves overworked under the old license system, and upkeep of forests on important slopes.

(2) Coppice under standards in reserves where trees have been much hacked about.

(3) Selection fellings in the rest of the reserves, compartment by compartment.

The object at present is to make a commencement at getting a semblance of order into the forest working by a rough classification.

Kistna.—Little has been done under this head on account of settlement work. The suggestions made by the Conservator for the preliminary working of several blocks will now have to be modified in all probability, for the idea underlying those suggestions was that these blocks were to be worked for fuel. It has, however, been given out that the section of the Railway which passes through the district will be worked with Singereni coal. Some of the blocks should therefore probably be treated for the growth of timber.

The fire-protected block of Kondapalli was surveyed by Mr. Hearsey, and plotted on a 4-inch scale. The work was well done. Mr. Hearsey was taken on duty in Kistna, as his studies at Dehra Dún were interrupted for a year on account of cholera.

Nellore.—The working plans drawn up for the plantations will have to be slightly altered on account of the ravages of the cyclone two years ago. The operations for the year were suspended in favor of clearing out all the remains of trees blown down or injured at that time. The attacks of caterpillers this year have been very bad; and a year's planting is lost in one or more plantations.

Cuddapah.—Part of the information necessary for a working plan of the end of the Lankamalai reserve was collected. The yield of this low jungle was found to be 4 tons of fire-wood over 2″ in diameter, and 2 tons of branch-wood under 2″ to the acre.

In Balapalle working circle, compartments 1 (*b*) and 5 (*a*) were cut.

The result was—

Compartment.	Area.	Total acreage.	Engine fuel in tons.	Small fuel tons.	Total tons.	Amount per acre in tons.
	ACS.					
1 (*b*)	14¾	43½	508¾	385½	894	20·6
5 (*a*)	28¾					

The result of the fellings for six years was—

	ACS.	TONS.	PER ACRE.
1882-83	50	562	11¼
1883-84	55	907	16½
1884-85	46⅔	1,002	21⅔
1885-86	58	915	16
1886-87	57	568	10
1887-88	43½	894	20½

Bellary.—The preliminary working plan of Sandúr has been slightly deviated from, and requires revision. The result of the thinning operations was—

—	Compartment.	Area.	Yield.
		ACS.	TONS.
Ramandrúg	12	699	643
North-eastern Range	2 and 3	2,042	1,390
Done Malai	3	754	899
		3,495	2,932

The work was not well done, as the personal superintendence of the District Forest-officer was necessary for such an operation, until his subordinates were properly trained. Too much was cleared out in many places, for the forest is very light.

In Kurnool, Godávari and Anantapur there were no working plans.

Nilgiris.—The preliminary working plans made out by Mr. Gamble were worked upon with slight variations, and were found very useful. Modifications are necessary because Government have ordered the strict reservation of sholas. The details of operations during the year are shown in a statement in the Appendix (B).

17. *Surveys.*—There were no survey operations in the circle.

CHAPTER IV.

Protection and Improvement.

18. (*a*) Establishments, ranges and beats—*I. Superior staff.*—This consisted during the year of—

One Conservator ... ... { Mr. A. W. Peet (acting). / Mr. J. S. Gamble (on furlough).

Four Deputy Conservators—

Mr. Higgens (C.S.) ... ... Cuddapah (on furlough).
„ Vincent ... ... Nellore do.
„ E. D. M. Hooper ... ... Kurnool.
Colonel R. S. Jago ... ... Nilgiris (on furlough).

Seven Assistant Conservators—

Mr. Brougham	Nellore.
„ A. W. Lushington	Ganjam.
„ Homfray	Kistna.
„ Battie	Godávari and Vizagapatam.
„ Lodge	Cuddapah.
„ Sweet	Bellary.
„ P. M. Lushington	Nílgiris.

The only change of any note is that Colonel R. S. Jago retired from the service from the 21st December 1887.

Mr. A. W. Lushington went on furlough for six months in May 1887 and returned within the period of his leave.

Mr. Sweet obtained three months' privilege leave on medical certificate from the 29th February and went to Europe. He has since commuted the leave, obtaining six months' sick leave.

Mr. P. M. Lushington was temporarily in charge of the Nílgiri district.

19. *II. Subordinate staff.*—The staff was as follows at the end of the year :—

Districts.	Clerks.	Peons.	Sub-Assistants.	Rangers.	Foresters.	Forest guards.	Total.
Conservator's office	325	56	..	..	..	..	381
Ganjam	70	58	..	200	55	122	505
Vizagapatam	35	46	..	50	40	103	274
Godávari	70	58	150	110	130	224	742
Kistna	75	70	200	150	155	292	942
Nellore	100	64	..	130	150	330	774
Cuddapah	100	88	150	315	170	428	1,251
Kurnool	75	90	..	180	135	206	686
Bellary	45	46	..	50	100	240	481
Anantapur	50	46	..	50	100	252	498
Nílgiris	110	81	150	130	155	244	870
Forest school	..	..	200	50	80	..	330
Total ..	1,055	703	850	1,415	1,270	2,441	7,734

Ganjam.—Some alterations were made during the year in the distribution of the establishment. The head-quarters of the District Forest-officer have been transferred from Russellkonda to Chatrapur, the head-quarters of the Collector, mainly to facilitate office work.

At the beginning of the year there were four ranges in Goomsúr, viz., Kukkuluba, Mojjagodo, Suradá and Kurcholi. The establishment had been strengthened by two temporary foresters, and as there were other four foresters, it was held advisable to make the ranges rather smaller, to put each range under a forester, and employ two rangers each to take a sort of sub-divisional charge of a group of three foresters' charges. The four ranges were therefore sub-divided into—

First group called *Eastern* Goomsur sub-division (under a ranger)—

Range.	Area.	Reserved forests and lands.	Agency.
	SQ. MILES.	SQ. MILES.	
Gayagonda (temporary forester) ..	165	123	..
Jaggernadprasad (forester)	210	75	..
Buguda (temporary forester)	325	89	..
Total ..	700	287	..

Second group called *Western* Goomsur sub-division (under a ranger)—

Range.	Area.	Reserved forests and lands.	Agency.
	SQ. MILES.	SQ. MILES.	SQ. MILES.
Pondakhol (temporary forester) ..	220	50	104
Boroborosinghi (forester)	240	103	..
Chokapad (temporary forester) ..	188	90	60
Total ..	648	243	164

The rest of district is thus provided for—

Range.	Area.	Reserved forests and lands.	Agency.
	SQ. MILES.	SQ. MILES.	SQ. MILES.
Berhampore (under a ranger) ..	561	24	40

This should really be a sub-division.

Chicacole is under the direct supervision of the District Forest-officer, for there is no Range officer available.

The establishment is very weak in forest guards, only 17 being entertained. However, there was rather too large a temporary establishment. The District Forest-officer really wants some men on an intermediate scale, drawing Rs. 15 and upwards, for he believes that a forest guard on Rs. 6 or 7 in that district is useless. The full subordinate staff was—

Rangers	3	Forest guards	17
Foresters	2	Clerks	3
(Temporary foresters) ...	4	Peons (including range peons).	9

Vizagapatam.—There was no separate officer available for this district, and it was put under the charge of the District Forest-officer of Godávari. This was hardly more than nominal, for he had as much work as he could do in his own district. A temporary arrangement was therefore made at the close of the year for a division of the charge of Vizagapatam, the Ganjam officer taking Pálkonda and the Godávari officer taking Golgonda and Sarvasiddhi taluks. It is hoped that something may be made of this district under this arrangement. The full subordinate staff was—

Ranger	1	Clerks	2
Foresters	2	Peons	3
Forest guards	15		

Godávari.—The subordinate staff was—

Sub-Assistant in Bhadráchalam.	1	Forest guards	32
Rangers	2	Office establishment { Clerks ...	3
Foresters	6	{ Peons ... (including range peons).	9

The average area of a range is 588 square miles. As a general supervision is at present necessary, there were seven permit-issuing gumastahs on a temporary establishment.

The regular staff have, as much as they can do, been watching the main timber trade, for the Godávari river is used for an enormous traffic from above the district. It was therefore a fresh complication when petty proprietors in Bhadráchalam commenced timber operations, and certain rules to facilitate a check over these operations are before Government.

Kistna.—The subordinate staff was—

Probationary Sub-Assistant ..	1	Forest guards	44
Rangers	2	Clerks	3
Foresters	6	Peons (including range peons)...	11

Nellore.—The subordinate staff was—

Rangers	2	Clerks	4
Foresters	5	Peons (including range peons)...	10
Guards	46		

Cuddapah.—For this district unfortunately no Sub-divisional officer could be spared after Mr. Toussaint's transfer to Ganjam to act as District Forest-officer there.

The full subordinate staff was—

Rangers	4	Clerks	4
Foresters	6	Peons (including range peons)...	14
Guards	63		

The area of the ranges is some 8,607 square miles, that of the forests some 2,000 square miles, so that the average beat of a forest guard is 136 square miles of country and 32 square miles of forest land. The staff is here, as elsewhere, inadequate.

Kurnool.—The District Forest-officer complains of the extraordinary number of changes in his establishment as retarding work. These changes were partly due to the department being short-handed, which necessitated the removal of Mr. Lushington, the Sub-divisional officer, and partly to much sickness occurring during the year.

The subordinate staff was—

Rangers	3	Peons (including range peons and supernumerary Gazetted officers' peons)	11
Foresters	5		
Forest guards	30		
Clerks	3		

Bellary.—The subordinate staff was—

Ranger	1	Clerks	2
Foresters	4	Peons (including range peons)...	7
Forest guards	34		

Anantapur.—The subordinate staff was—

Ranger	1	Clerks	2
Foresters	4	Peons (including range peons)...	7
Forest guards	37		

Nilgiris—

Rangers	2	Clerks	3
Foresters	6	Temporary clerk	1
Forest guards	30	Peons (including range peons)...	6

(*b*) *General Protection and Breaches of Forest Rules.*

20. Form No. 63 shows the prosecutions for breach of forest rules. The number of cases filed during the year was 1,249, and adding 103, which were pending at the close of the year, the total number prosecuted was 1,352. In these, convictions were obtained in 888 and acquittals in 339. There are 125 still pending.

The percentage of convictions was—

Ganjam	58·9	
Vizagapatam	66·5	
Godávari	62·4	
Kistna	66·0	
Nellore	44·4	There are no cases of sufficient importance to quote in this report.
Cuddapah	83·4	
Kurnool	66·9	
Bellary	52·6	
Anantapur	54·0	
Nilgiris	60·6	
On the whole	61·6	

The number of cases compounded during the year was 206, the persons implicated being 655, the numbers last year being respectively 240 and 250. In one case the accused was acquitted. This list is exclusive of the number of cases prosecuted as given above, so that the total number of cases dealt with during the year was 1,558. Most of the cases occurred in Kistna, Cuddapah and Nellore.

The amount realised was 1,148 against Rs. 887-12-0 last year.

(*c*) *Forest fires and fire-protecti n.*

21. Form No. 62 gives the area of forests protected from fire during the year.

In *Ganjam* it is acknowledged that the record of fires was kept badly during the year, and that there were probably unreported fires in outlying localities. This slackness is attributed to changes of staff at critical periods, and the fact that on no single occasion has a village head reported the occurrence of a fire (see section 23 of the Forest Act). The matter of record of fires is being now properly taken in hand. In Berhampore, there were eight fires in all, two of which were rather extensive. The extreme drought from November to March rendered fire-protection difficult here.

The Goomsur returns are considered so untrustworthy that the forest has not been included in the area given in statement No. 62 as fire-protected. The returns show only two small fires. There was a considerable staff of watchers here.

Godávari.—Of the 12 blocks containing 115 square miles protected during the year, there were three blocks containing 45 square miles under ordinary protection, and the rest were under special fire-watchers. Owing to the exceptional drought some fires occurred before the staff was regularly organised, but the damage done was not so great as if the fires had occurred later. The arrangements made in Bhadrá-chalam have not been a success, and the Koyas have not come forward to act as fire-watchers. It will be very long before much headway can be made against the system of firing forests in this district. The Acting Conservator was struck with the systematic and universal firing in Juddengy and neighbouring Agency tracts; and although it is proposed to bring these tracts under the Forest Act, any steps against preventing fires will have to be made very slowly, and by taking up only small pieces of forest at first, and trying to get the people with instead of against us.

Kistna.—No fires occurred in the protected areas, which are the same as those protected last year.

The only forest not liable to be burnt are the Mada forests at the mouth of the Kistna river, about 60 square miles.

Of the remaining unprotected forests, the District Forest-officer estimates that fires occurred over about 10 per cent. of the area.

Nellore.—According to reports, almost all the area in the plains, estimated at 280 square miles, escaped without fire. The area of the Government portion of the Veligondas, estimated at 110 square miles, was protected by a staff of fire-patrols at the cost of Rs. 376; efforts being made at prevention of wilful damage, rather than any systematic protection. The areas burnt were—

2	square miles	in the	Kanigiri	range.
3	do.	do.	Rápúr	do.
2½	do.	do.	Udayagiri	do.

under 7 per cent. of the area protected.

Cuddapah.—Two hundred and fourteen square miles were protected by fire lines and 101 square miles by watchers only.

Only 10 per cent. of the former was burnt and none of the latter. The results of protection must be held to be very successful, as it is considered that almost the whole of the unprotected forest in the district was burnt over.

Kurnool.—An attempt was made at protecting only a small area and training the staff thoroughly in the principles of fire-protections. For this purpose a block of 4,500 acres was chosen; but unfortunately by the carelessness of the ranger fire was allowed to enter even this block. Mr. Hooper's estimate of the amount of forest which escaped fire in the unprotected areas is confessedly on insufficient data; but he takes the view that only about 15 per cent. escaped fire, that is, about 140 square miles out of 1,600.

Bellary.—Attempted protection of 103 square miles. This district has been specially singled out for real attention to the subject of protection and the Sandúr forests were protected for some years till unfortunately last year broke the record. This year only half square mile was burnt.

Protection cost Rs. 3,140 including Rs. 1,037 spent at the end of the previous fire season. The amount spent during this fire season is only at the rate of 6 pies for each acre protected. The exclusion of fire this year is very satisfactory. The estimate made for the 170 odd square miles of unprotected reserve was that about 13 per cent. were burnt. The fires occured in Bellary, Bundri, Harada, Somalapur and Hospet reserves.

Anantapur.—Four fires took place in fire-protected areas just after the close of the official year 1886-87, namely, 1,000 acres in Kottakota, 10 acres in Amagonda-polliem, 4 acres in Somarazmalai and 20 acres in Khojepalle.

Fire-protection during the current fire season was more successful, as only 80 acres were burnt in Kottakota. The estimate, that only 2,000 acres were burnt in unprotected forests, is probably very much below the mark.

Nilgiris.—There were no fires in the plantations with the exception of a small one in Arambi which injured the young cryptomerias over an extent of some two

acres. There were, however, extensive fires on the grass lands of the Kundahs which were unprotected, these fires being for the most part made deliberately by the Todas.

In Mudumalai, Móyár and Benne there were very many fires, which in some cases crossed the attempts at fire lines, getting even into the Mudumalai teak plantations. This part of the forest charge wants most systematic supervision by a District Forest-officer in person; and the fires may be controlled another season by more direct control and instruction of subordinates.

(*d*) *Grazing.*

22. In *Ganjam* grazing was stopped in reserved lands. The question of allowing it on payment of fees is now under consideration.

In *Godávari* grazing dues were collected only in the Cocanada coast forest, the right of grazing being sold by auction for Rs. 900.

In the unsettled villages of the district which are now rented out yearly, the rent includes tax on grazing and the usufruct of trees on ashalminha lands. Arrangements are now being made to separate these items from land revenue and to credit them to forests.

In *Kistna* grazing proceeds form a very large proportion of the revenue. The rights of grazing were sold as usual by auction and fetched Rs. 38,711. In other districts also it is believed that a very considerable revenue should accrue to Government under this head. The Kondapalle fire-protected block was closed against grazing, but large quantities of excellent grass were sold on head-load permits.

In *Nellore* the kanchas (pasture lands) were taken in hand for the first time by the Forest Department; Rs. 12,784 were realised as rent, and it is expected that this revenue will increase.

In *Cuddapah* grazing was allowed free on all reserved lands, and half fees were collected in some reserved forests, the proceeds being Rs. 1,227. This source of income should be cautiously but surely increased.

In *Kurnool* a new departure was made, and Mr. Hooper deserves credit for working out what promises to be a successful method of collecting dues under this head. Formerly there was leased out yearly or half-yearly the hill tract where the Nallamalai forests widen out in the Márkápur and Nandikotkúr taluks towards the Kistna river. When the maximum sanctioned charge was 2 annas a head, the yearly receipts averaged only Rs. 700, when the charge was 4 annas they realised about Rs. 1,200. During the year under report the system was introduced of issuing permits direct to the cattle-owners. A large number of permits were printed and a commission of $6\frac{1}{4}$ per cent. was given to any one who brought a list of cattle and the money for the permits. Only one anna a head for the year was charged for each animal, yet the receipts were Rs. 4,888, of which Rs. 2,700 were realised in Márkápur taluk alone, the cattle grazed being—

Buffaloes	...	...	...	...	...	...	...	...	...	164
Cows	...	...	...	...	...	...	...	...	...	14,303
Bulls	...	...	...	...	...	...	...	...	...	2,561
Bullocks	...	...	...	...	...	...	...	...	...	11,593
Goats	...	...	...	...	...	...	...	...	...	23,362
Sheep	...	...	...	...	...	...	...	...	...	20,676
								Total	...	72,659

It is proposed to raise the rates one anna this year, and notice to that effect was given at the commencement of the proceedings. The Márkápur ryots paid the dues with alacrity, and were pleased to find that forest settlement did not necessarily mean the exclusion of their cattle from the forests; on the other hand, the Sirvel and Nandyál ryots have come forward very little, partly owing to the fact that a very large area of forest has been left outside the boundaries, and partly because they prefer grazing on the more open Yerramalais.

In *Bellary* free grazing was allowed in unreserved lands, and grazing on fees in five reserves; the fees produced only Rs. 262-6-10. Sandúr leased forest was closed against grazing, but grass-cutting was permitted on head-load permit, the returns being Rs. 67.

In *Anantapur* grazing and removal of grass were allowed free in all reserved lands except those under special fire-protection. In Muchukota 25,945 head-loads of grass were removed. Some revenue should be made under this head during the current year.

The grass silo in Khojjepalle was considered a success.

In *Nilgiris* free grazing is allowed to Todas in all the forests not altogether closed against grazing. It was found that 3,775 Toda buffaloes were grazed under this permission. Some abuses were mentioned, one of which was that Todas tried to take in Badaga buffaloes in some cases, to enable the latter to enter without payment of fees. Some damage to boundary posts is reported from another range, but the most serious question is the systematic firing of grass lands by the Todas without any due precautions. This must be watched next fire season. The total amount of revenue received from fees was only Rs. 474. There is not the smallest doubt that a very large revenue should be realised from this district; for instance, Mudumalai and Benne are largely grazed by local and Mysore herds, which should certainly pay if admitted into the forest.

(*e*) *Natural Reproduction.*

23. *Ganjam.*—It is noted that there is already a marked improvement from conservancy visible on the Mohiri Hills. The reproduction of the Sal forests in this district is wonderfully rapid.

Godávari.—Natural reproduction, especially of Yepi (*Hardwickia binata*), in the plains of Bhadráchalam is generally good notwithstanding fires and grazing. There is no teak. In the lower taluks, the forest is so poor that grazing must be limited, and special attention paid to fire protection.

Kistna.—Natural reproduction is very bad in the open forests. This is the reverse of the picture which shows immunity from fire and a large balance from grazing dues. Immunity from fires often follows as a natural result of excessive grazing, especially where the growth of grass is not naturally very luxuriant; but bad reproduction also follows as a natural result both from the ground being trodden so hard that seeds will not penetrate and also from the active mischief caused chiefly by goats. The District Forest-officer refers chiefly to the latter, and there is no doubt that they must be restricted to certain fixed localities.

In the Kondapalle block which is closed against grazing, there is a show of reproduction by seed. The Mada (*Avicennia officinalis*) reproduces itself well in the coast forests.

Nellore.—There are no remarks under this head.

Cuddapah.—Coppice in Balapalle working circle is fair, except in compartment 6 (*b*) which has failed because cut too long before the rains. The result has been a dense growth of strobilanthes.

Kurnool.—Reproduction on the western side of the Nallamalais is very fairly rapid, and coppice growth is readily obtained. Much damage has, however, been noticed from goats, and even more from goat herds and cattle-drivers topping over trees for the animal to browze upon. The District Forest-officer gives the following fact: "He has witnessed the destruction of a fine growth of straight seedlings of *Pterocarpus marsupium* (Vengai) by this means, the damage being done over an area of from two to three hundred acres in one day's grazing of a Brinjari's herd in the hot weather when grass was scarce."

The forests of Cumbum and Márkápur (Eastern Nallamalais) do not reproduce themselves rapidly and require careful treatment. On the North and South Veligondas there is a fair prospect of reproduction, though in a less degree than on the Western Nallamalais. This is also the case in the Uyyalavada block, especially towards Cuddapah district. On the Yerramalais it requires the greatest care to provide for a regrowth, and particular steps must be taken to prevent the universal habit of pollarding Yepi (*Hardwickia binata*) and stripping the bark of the sprouts for fibre. Some arrangements have been made for localizing this industry.

Bellary.—There are improvements already visible in parts of the Sandúr leased forests and in the Sunkadakal reserve.

Anantapur.—The statement is repeated that, in Muchukota, seedlings of Yepi (*Hardwickia binata*) spring up during the wet season only to die down during the hot.

The Acting Conservator intends suggesting that part of this forest be absolutely reserved this year both from cattle-grazing and also from grass-cutting. In Kottakota seedlings especially of *Chloroxylon swietenia* (Satinwood) are springing up well.

Nilgiris.—In the Ootacamund range the natural reproduction of gums by coppice is very successful in Aramby, Cairn Hill and Baikie, but less so in the exposed plantations known as Governor's shola and Andy. The latter is a mixed plantation of blue-gum and acacia, chiefly melanoxylon. It is noted that the former shoots far more rapidly than the latter.

In Aramby there is a sprinkling of self-sown seedlings of blue-gum in block II, compartment 4. Seedlings are also found in Governor's shola. Two thousand self-sown seedlings were taken from Aramby block II and planted in block IV, and similarly in Governor's shola vacancies were filled up.

In the Coonoor range coppice has been very successful, particularly in the Ghât reserve. Mr. Gamble's experiments on treating sholas as coppice under standard has been very successful here. In Old Forest blue-gum plantation, it is noted that the growth of self-sown seedlings is more rapid than that of artificially planted trees.

In the Mudumalai range, the natural reproduction in the compartments cut is coming on fairly. Some heavy thinnings took place in Longwood shola, Kótagiri, before the order to stop operations in sholas, and the saplings which were left are coming on well.

(*f*) *Artificial Reproduction.*

24. *Ganjam.*—The seeds sown broadcast in the Berhampore fuel and fodder reserves have almost entirely failed. Some seedlings, including some of Sissu (*Dalbergia*) and mahogany, kindly given by Mr. Weld, will be planted out during the rains. In the Mojjagodo teak plantation there are 192 trees and 900 seedlings, but it is a doubtful experiment. Teak will never be able to look after itself in a sâl forest.

Godávari.—One of the two plantations of casuarina is now a reserved forest and the other is under settlement. Additions have been made to their areas, but planting operations have been postponed.

Kistna.—10 acres of casuarina were planted in the Gopavanipalem and 10 acres of miscellaneous trees in the Weld experimental garden. In the Bápatla taluk small additions were made by the gardeners in charge. Two plantations of 27 acres were sold and corrections of areas reduced the total acreage of plantations by 44 acres.

The Weld experimental garden is not a success, and the Acting Conservator recommends that the area be much reduced. It is useful to have a few experiments, but they should be on a very restricted scale.

Nellore.—The yield and cost of plantations is shewn in a statement in the Appendix C.

There has, however, been grave cause of anxiety about these plantations; for they were attacked by insects to such an extent that in some places the young plants were nearly exterminated. In the Dugarázpatnam plantation, 50,000 seedlings were planted out over nearly 100 acres. In a very short time, 14,200 casualties occurred, which were replaced, and efforts were made to preserve the trees with lime, tobacco, phenyle, tar, &c., but to no purpose. Replanting was eventually stopped, and the ravages in all accounted for 53,000 seedlings. Private plantations at Dugarázpatnam suffered equally with those of Government. The damage was done by some insect which bit through the stem of the seedling, severing it completely off. The District Forest-officer sent some caterpillars which he named as the cause of the mischief, but it is doubtful whether the information furnished privately by Mr. J. Steavenson, Honorary Secretary, Agri-Horticultural Society, was not more correct—that the mischief was done by mole crickets.

At Kottapatam, the ravages were not so great, but 2,558 young trees were killed out of 25,000 planted.

This is not the place to discuss theories in detail; but it is to be feared that the underlying moral is that land will not go on growing casuarina indefinitely. Whether the constituents in the soil necessary for the growth of a particular tree become exhausted, or whether the seed of naturalised trees becomes gradually inferior, or whether the enemies of the tree become gradually stronger through the removal of the mixed cover suitable to their enemies,—the birds,—the result is seen on all sides that a crop planted and replanted ends in failure. Similar facts have been seen with Scots fir in Alsace, larch at Dunkeld, and coffee in this country.

In Chandrasikuppam plantation there was no fresh planting, as the soil seems unsuited to casuarina. In Tamminapatnam, 20,000 seedlings were planted round the wells, and all are doing well.

Cuddapah.—The mahogany plantations at Pullagundalnala is not a success. About 600 seedlings survive, but are not likely to become timber trees. Some iron-wood and blackwood seedlings have been put down.

At Kamalápuram the *Adenanthera pavonina* seedlings which were planted out two years ago have nearly all died. In this reserve 30,000 palmyra seeds were planted and have nearly all germinated.

In Santhakova 714 teak seedlings were planted out, and in compartment 6 (*b*) of Balapalle 2,543 seedlings of *Hardwickia binata*, *Chloroxylon swietenia*, *Acrocarpus fraxinifolius*, *Acacia melanoxylon*, and others were planted out.

Kurnool.—There is no artificial reproduction.

Bellary.—There is little to note.

Anantapur.—In Kottakota 1,000 palmyra seeds and two maunds of teak-seeds were sown and nearly all germinated, but many died during the hot weather.

Nilgiris.—New planting is given under Experiments and Exotics in the Appendix The list of plantations is shown in Form No. 60.

In Ootacamund Range in block I of Aramby, 1,200 shola tree plants, chiefly *Michelia* and *Gordonia obtusa*, were planted up in vacancies in the shola and are doing well.

In block I of Cairn Hill vacancies in the shola were filled up with *Michelia* and *Eugenia*, the former species being a success, the latter a failure. In block XII one and-a-half acres of grass land was planted as an experiment with shola trees, but the result is not satisfactory.

In the Kullar range the teak plants put down in block II, compartment 2, during the year are promising well. The teak plants are mixed with iron-wood and vengai. The latter (*Pterocarpus*) promises well, but the iron-wood grows very slowly, and there are 30 per cent. of failures.

In compartments 6, 7, 8, 9 and 10, 3,318 teak plants have been put down and are growing very well.

In the Melúr Range, 472 plants of shola trees were put down to fill up blanks in Devashola. There are 25 per cent. of failures, but the rest are doing well, particularly *Eugenia arnottiana*, *Gordonia obtusa* and *Ternströmia japonica.*

Work of Improvement.

25. The only districts on which there is anything to remark are—

Nellore.—The plantations and the Sríharikót reserve presented a most ragged and unkempt appearance owing to the fact that only partial efforts had been made to get out all the wood damaged by the cyclone two years before. The Acting Conservator therefore suggested that the regular plan of operations should be temporarily abandoned, and serious efforts made to clear out this storm wood. The result was that the following quantities were brought out:—

Casuarina wood.

	TONS.
Dugarázpatnam	3,909
Kottapatam	
Tamminapatam	

Jungle wood.

	TONS.
Srîharikót—	
Matchalu	1,608½
Chinnamottalu	7¼
Rasi	588
Sannam	481
Thopudu	12¼
Sulli bundles	286
Total ...	2,983

All the casuarina trees which had been broken over by the storm were cut down within about 3 feet of the ground in the attempts to cause reproduction by the system of half coppice, half pollarding, which alone suits the casaurina. The style of work in the plantations was decidedly slovenly, and personal instructions were given to the rangers.

Cuddapah—where a small amount of creeper cutting was conducted.

Kurnool.—An attempt was made at collecting statistics of yield at Velgode, with the result that the yield was found to be 7 tons an acre. The forest is of inferior growth there, but the experiment was made to test the possibility of supplying some portion of the railway requirements from this direction.

In works of improvement should be classed an attempt at locating forest guards on the boundaries of the forests. This is an important step in the right direction. If this system could be carried out properly, conservancy would become a reality; but the pay and prospects of forest guards must be materially improved before they can become, as in France, the backbone of conservancy. What is wanted is a superior grade of what are now considered the uneducated classes. Highly educated men are not necessary, but we want intelligence and good physique. The experiment in Kurnool should be watched with interest of trying to induce forest guards to live with their families on the boundaries of the forests.

Bellary—where improvement thinnings were carried out in Sandúr leased forests; cost Rs. 1,705, yield 1,047 tons, of which 365 tons were sold for Rs. 1,682. The work is needed, but it was not well carried out, for the operations were not (as should have been the case if Mr. Sweet's health had been better) personally superintended by the District Forest-officer until his staff was properly trained.

Nílgiris.—In the Ootacamund range, 7 acres of Eucalyptus was weeded and thorny bushes removed; the cost was Rs. 35 and the value of the 289 head-loads which resulted from the operation was Rs. 18.

In Coonoor range, 22 acres in Lamb's Rock reserve (shola) were cleared of creepers and strobilanthus at a cost of Rs. 115. The produce was sold for Rs. 350, a net profit of Rs. 10½ an acre.

In Sim's Park reserve, 2 acres were thinned at Rs. 35½. This operation yielded produce which sold for Rs. 106, giving a net profit of over Rs. 35 an acre.

In the Ghát reserve compartment, No. 2, West block, was thinned at a cost of Rs. 109.

The receipts were Rs. 401½, giving a net profit of Rs. 292½.

In the Tiger Hill reserve, 4 acres were cleared of creepers. Cost was Rs. 20; proceeds Rs. 60.

In the Melúr range in Devashola, North block, strobilanthes and creepers were cut and cleared to the extent of 10 acres at a cost of Rs. 6 an acre. The dead and gnarled trees were converted into six lots of firewood, each of 100 cubic feet.

In the Mudumalai range thinning was very badly done for want of proper supervision.

In the Kullar range an improvement cutting was begun early last year in compartments Nos. 8, 9, 10, 4, 6 and 7 of block IV of the Kullar reserve. This cutting was intended to remove the creepers, to thin out the bamboos, and to clear away the dying and over-mature trees in order to encourage a young growth of the better species. The two former parts of the operation have been done, and the following is the

ACCOUNT CURRENT.

Expenditure.	Rs.	A.	P.	*Receipts.*	Rs.	A.	P.
Thinning 133¼ acres at Rs. 6-8-0, and 7 acres, at Rs. 7	848	10	0	Cost of 174 cart-loads of fuel at 12 annas.	130	8	0
For cutting 289 lots of fuel at Rs. 1-8-9 a lot (100 cubic feet).	433	8	0	6 Lots of fuel at Rs. 2-8-0 a lot.	15	0	0
For collecting 198 drag poles at Rs. 3 for 100	5	14	0	32,000 Small bamboos at 12 annas per 100.	240	0	0
				49 Cart-loads of split bamboos at Rs. 2-8-0 a load.	122	8	0
				2,890 Head-loads of small bamboos at annas 1-6 per head-load.	270	15	0
				1,876 Head-loads split bamboos at 2 annas a load.	234	8	0
				4,281 Head-loads of grass at 3 pies a head-load.	66	14	3
				81 Head-loads wild dates at 6 pies.	2	8	6
				Value of stock of 530 cart-loads of fuel at 8 annas.	265	0	0
				Total ...	1,347	13	9
				Deduct expenditure ...	1,288	0	0
Total ...	1,288	0	0	Balance ...	59	13	9

Charcoal.

26. The experiments commenced last year in Bandyshola with Morean's oven, were continued this year in the same reserve. The results have much improved lately, due to a better system of stacking the wood in the kiln. In the Appendix are two statements, D and E, one showing the results obtained with the oven, and the other with ordinary native kilns built at the same place and burnt at the same time.

Nurseries.

27. The nurseries are all small and unimportant, except those in Nellore and on the Nilgiris. Some of the latter are particularly well kept. Mention will be found in the Appendix under Experiment and Exotics of some of the trees sown in these nurseries.

Topes.

28. The list of topes is given in form No. 61. There are no particulars of interest to mention about these topes. They are for the most part leased out by the year for their minor products or as grazing-grounds. The areas in one or two instances have been corrected.

Communications and Buildings.

29. *Ganjam—Roads.*—Work was much delayed owing to Mr. Lushington's absence. A trace was cut in continuation of the Tilsingi-Chandorgiri road to Kukkuluba, and a branch was made to Hatiguda at an expenditure of Rs. 398. The bandy-track in Ramba was also improved. Out of Rs. 7,000 sanctioned only 1,091 was spent on roads.

Buildings.—Much useful work has been done in this direction. A building was built of stone in mud at Gullery, of wood at Chandorgiri, of brick in chunam at Jaggernadprasad, of brick in Gayagonda and of wood at Khariguda and Tilsingi. Four rest-sheds were built of wattle and daub on the Mohiri hills, four guards' houses at Gullery, Tilsingi, Bodangi and Jaggernadprasad.

The total expenditure was Rs. 3,751, including a sum of Rs. 924 spent on a range-house at Berhampore, which has already been passed separately by Government. There is an item of Rs. 724 for watchmen and sweepers which is much too high, and some other arrangements must be made during the current year. A map is attached showing the position of the roads and buildings; for it is held advisable to point out that preparations are now in a fair state of progress for having this district in thorough working order; for up to date the results financially have not been successful.

The plan of the Khariguda bungalow is a very good one for this district where planking is readily obtainable, a wooden bungalow built under a detached thatched roof; the whole bungalow with out-houses costing only about Rs. 400.

Godávari—Roads.—About nine miles of work was completed on the roads in Bhádrachalam commenced last year, costing Rs. 735. Labor is scarce and bad, as the Koyas do not understand earth-work; and more than Rs. 1,200 of the budget allotment lapsed.

Buildings.—A rest-house at Rékapalle was completed at a cost of Rs. 327 and three others at Jiriguppa, Murmur and Ramasaram are in progress. Work is slow, as the contractors constantly go away on account of fever, and the workmen disperse. Some minor sheds were built. More than Rs. 1,500 of the budget allotment was unfortunately allowed to lapse.

Kistna.—Very little was done under these heads as the money was wanted for demarcation. A bridle-path was made in Kondapalli at a cost of Rs. 115. One or two minor buildings were erected and two small boats were built at a cost of Rs. 280, for subordinates in the Bandar and Bápatla ranges. The whole of the savings from other heads was utilised for demarcation and compensation and Rs. 2,800 besides.

Nellore.—There was little done under this heading. An additional room was added to the bungalow at Sríharikót.

Cuddapah—Roads.—Two hundred and eleven chains have been made on the Bodagala or Balapalli road, 94 chains on the road in North Seshachellum, 5 miles on the road in Ráyachóti, and 220 chains in the Lankamalai road.

Buildings—Mogilipenta bungalow was completed (Rs. 248); a range-house at Kódúr (Rs. 834); a range-house at Ráyachóti begun (Rs. 240); and inspection shed at Yerrapenta (Rs. 30); out-houses to range bungalow at Sidhout (Rs. 60); seven guards' huts (Rs. 127); seven tannadars' huts (Rs. 142). Repairs (Rs. 388).

Kurnool.—Roads proper have not been much attended to owing to repeated changes in the staff. The railway, however, has in an incidental way benefitted the forests, for their service road will remain a most useful road for forest purposes. Rs. 2,000 under this heading was allowed to lapse.

Buildings.—The Forest officer's head-quarters at Nandyál is at last finished and is well built, though the cost has been high owing to the fact that all prices have risen on account of the railway works; but the original estimate was too low in any case. The tanna at Velgodo has been rebuilt in a healthier spot. Huts for forest guards have been built on the boundary lines. Six have been finished and four are in progress in Sirvel, and five have been built in Cumbum. Provision for Rs. 17,000 was made in the regular estimate; but unfortunately over Rs. 9,000 of this was not utilized and the reasons given in the report are not clear. The District Forest-officer's house at Nandyál was probably not finished soon enough to admit of full payment being made during the year.

Bellary.—The inspection shed at Donemallai is almost finished at last. The work has been very slow, and unsatisfactory.

Anantapur.—No work was done under these heads. Mr. Sweet was not well enough to look after the works himself, and it was considered preferable to delay work than entrust it to incompetent subordinates.

Nílgiris—Roads.—Half a mile of each of the new roads in Cairn Hill and Aramby were metalled at a cost of Rs. 859; an inspection path of 1,000 yards was cut in the Therma tope reserve at a cost of Rs. 38, and one in Aramby of 900 yards at a cost of Rs. 7. The whole of the road from Tippacadu to Bonne was repaired (17 miles), and the road from Kakamulla (5 miles) was completed, but payment has not been adjusted as the ranger's rates were objected to as too high. The Wood-houselee road was extended, metalled and repaired during the year at a cost of Rs. 548. In old forest, three roads were repaired at a cost of Rs. 104, and a new road opened at a cost of Rs. 25, and various other repairs were done, and two new bridle-paths made in Teneriffe and Longwood.

Buildings.—Two forest guards' houses were built; various repairs were done, and materials were collected for a tool shed. Some money unfortunately lapsed because houses were not built at Mudumallai, as the site was condemned.

CHAPTER V.

Yield and Working.

Departmental Work—Form No. 68, &c.

30. *Form No.* 68 gives the trees felled by departmental agency during the year as 44,952 as follows :—

Teak	222
Sál	1,220
Blackwood	25
Satinwood	42
Ironwood	16
Maddi	60
Vengai	28
Casuarina	77
Palmyra	18
Eucalyptus	13,857
Acacia	609
Miscellaneous	644
Bamboos	28,134
Total ...	44,952

The above details are given to show the extent of demand. The teak, blackwood, eucalyptus and acacia trees were all cut in the Nílgiris, the sál in Ganjam, the casuarina in Kistna and Nellore, and the bamboos in Cuddapah and Bellary.

31. *Form No.* 69 shows the timber and other produce cut and collected by Government agency and its disposal either by sale or otherwise. The amount collected during the year was—

District.	Timber.	Fuel.	Bamboos.	Minor produce.	Sandal-wood.
	TONS.	TONS.	TONS.	TONS.	TONS.
Ganjam	842¼	221	1½	¼	..
Godávari	36 (a) 392	(a) 150	(a) 84	..	..
Kistna	10	48	..	Mds. 4	..
Nellore	30	7,359	..	8	..
Cuddapah	2,171⅛	177⅛	394	34½	..
Kurnool	..	191	..	Mds. 12½	..
Bellary	82½	1,086	1,018	,, 15	..
Anantapur	9	1	..	2½	..
Nílgiris	220	7,111½	..	4¼	18½
Total ..	3,793⅝	16,345½	1,497½	50¼	18½

(a) Driftwood.

Subjoined is a comparison of the yield for three years :—

—	1885-86.	1886-87.	1887-88.
	TONS.	TONS.	TONS.
Timber	1,726½	1,050½	3,793⅝
Fuel	15,900	24,042	16,345½
Bamboos	92	450	1,497½
Minor produce	59½	160¼	50¼
Sandalwood	10	22¼	18½
Total ..	17,788	25,725	21,705⅛

32. *Form No.* 70 shows the receipt and disposal of timber, &c., in sale depôts. The amounts received and disposed of during the year come to—

District.	Timber.		Fuel.		Bamboos.		Minor produce.	
	Received.	Disposed of.	Received.	Disposed of.	Received.	Disposed of.	Received.	Disposed of.
	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.
Ganjam	759	747	..	7	1½	1½	..	1
Godávari	2	1	..	..	..	..	..	..
Kistna	..	..	11	11	..	..	..	..
Nellore	..	2	2,927	4,267	..	..	7½	8
Cuddapah	2,080½	1,693	1½	1½	..	..	61¾	30¾
Kurnool	..	..	..	..	..	..	5¾	..
Bellary	..	..	11	..	..	..	..	..
Anantapur	¼	¼	..	..	..	..	2	2½
Nilgiris	81	79½	1,820	2,088	..	..	..	..
Total ..	2,922⅜	2,522¼	4,770½	6,374½	1½	1½	76¼	42¼

Subjoined is a statement of sales in depôts for three years:—

	1885-86.		1886-87.		1887-88.	
	Receipts.	Disposals.	Receipts.	Disposals.	Receipts.	Disposals.
	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.
Timber	2,515	2,656	2,317	2,153	2,922⅜	2,522¼
Fuel	7,958	7,636	7,034	5,802	4,770½	6,374½
Bamboos	33	515	16	16	1½	1½
Minor produce	48	61½	579	513	76¼	42¼
Total ..	10,554	10,868½	9,946	8,484	7,770⅜	8,941

33. *Form No.* 71 shows the sales of timber—first from depôt, secondly from the forests directly, thirdly from drift, and fourthly from confiscated wood. The following abstract of form shows the sales of the year:—

Timber.

District.	Depôt.		Local.		Drift.		Confiscated wood.		Total.	
	TONS.	RS.	TONS.	RS.	TONS.	RS.	TONS.	RS.	TONS.	RS.
Ganjam	176½	5,287	47	660	..	..	..	155	223½	6,102
Vizagapatam	..	..	..	..	..	..	..	22	..	22
Godávari	1	29	2½	62	413	6,203	..	148	416½	6,442
Kistna	..	..	10	64	..	..	..	328	10	392
Nellore	2	11	15½	175	..	..	..	61	17½	247
Cuddapah	1,688½	29,336	25	434	..	..	..	847	1,713½	30,617
Kurnool	..	..	..	..	..	..	..	1,000	..	1,000
Bellary	..	..	82½	921	..	..	..	124	82½	1,045
Anantapur	¼	4	8½	118	..	..	..	45	8¾	167
Nilgiris	62½	654	31	585	..	..	..	7	93½	1,246
Total ..	1,930¾	35,321	222	3,019	413	6,203	..	2,737	2,565¾	47,280

Fuel.

District.	Depôt.		Local.		Drift.		Total.	
	TONS.	RS.	TONS.	RS.	TONS.	RS.	TONS.	RS.
Ganjam	..	..	247½	193	..	..	247½	193
Godávari	..	..	..	..	150	348	150	348
Kistna	11	25	55	77	..	..	66	102
Nellore	4,262	29,028	278	1,281	..	..	4,540	30,309
Cuddapah	1½	7	..	..	..	..	1½	7
Kurnool	..	..	191	1,004	..	..	191	1,004
Bellary	..	..	404	1,742	..	..	404	1,742
Anantapur	..	..	1	3	..	..	1	3
Nilgiris	1,753½	12,044	2,862	9,131	..	..	4,615½	21,175
Total ..	6,028	41,104	4,038½	13,431	150	348	10,216½	54,883

Bamboos.

District.	Depôt.		Local.		Drift.		Total.	
	TONS.	RS.	TONS.	RS.	TONS.	RS.	TONS.	RS.
Ganjam	1½	2	..	..	..	..	1½	2
Godávari	..	..	..	..	84	41	84	41
Cuddapah	..	..	388	255	..	..	388	255
Bellary	..	..	1,018	2,108	..	..	1,018	2,108
Total ..	1½	2	1,406	2,363	84	41	1,491½	2,406

Sandalwood.

	Sold locally.	
	TONS.	RS.
Nilgiris	17¼	5,804

Minor Produce.

District.	Depôt.		Local.		Total.	
	TONS.	RS.	TONS.	RS.	TONS.	RS.
Ganjam	..	..	¼	8	¼	8
Kistna	..	..	Mds. 4	3	Mds. 4	3
Nellore	8	1,605	Mds. ½	1,002	8	2,607
Cuddapah	17½	1,123	3	135	20½	* 1,258
Kurnool	..	..	Mds. 12¾	56	Mds. 12¾	56
Bellary	..	..	¼	47	¼	47
Anantapur	2½	351	¾	88	3¼	439
Nilgiris	..	..	½	502	½	502
Total ..	28	3,079	5¼	1,841	33¼	4,920

* Deposit.

The following statement shows a comparison of sales for three years :—

	1885-86.		1886-87.		1887-88.	
	Quantity.	Amount.	Quantity.	Amount.	Quantity.	Amount.
	TONS.	RS.	TONS.	RS.	TONS.	RS.
Timber	3,959½	75,819	2,550	44,226	2,565¾	47,280
Fuel	12,392	75,295	15,759½	78,837	10,216½	54,883
Bamboos	559	662	465	932	1,491½	2,406
Sandalwood	10	3,081	22	9,000	17¼	5,804
Minor produce	68¾	5,830	74½	3,872	33¼	4,920
Total ..	16,989	1,60,687	18,871	136,867	14,324¼	1,15,293

34. *Form No.* 73 *A* shows the difference in value between the stock on hand at the commencement and close of the year in—

District.	On hand at commencement of the year.	On hand at close of the year.	Difference.
	RS.	RS.	RS.
Ganjam	3,623	4,590	+ 967
Godavári	..	30	+ 30
Nellore	13,482	5,969	— 7,513
Cuddapah	1,378	9,550	+ 8,172
Kurnool	191	191	..
Bellary	..	69	+ 69
Anantapur	2,353	2,272	— 81
Nilgiris	4,064	1,680	— 2,384
Total ..	25,091	24,351	— 740

Ganjam.—The yield was most unsatisfactory. This was partly due to a change of officers at a critical time, for there was an interregnum between Mr. Lushington's departure and Mr. Toussaint's taking charge and the latter was ill for some time after arrival; and the favorable season for departmental operations was lost. Mr. Toussaint was also under the mistaken idea that work should await the conclusion of the settlement. Had there been a larger stock on hand it is quite possible that a market for sleepers might have been found, for demands are usually urgent. However, there was more than this to account for the bad financial results, for there was undoubted mismanagement with the stock on hand. The final depôt at Gopálpur was flooded with wood much of which was so inferior as not to have been worth carting. Much allowance must be made for Mr. Toussaint on the score of inexperience and ill health, for Ganjam was too large a district for him and he suffered much from fever, but his rangers must have been very much wanting in common sense to transport what they must have known to be worthless timber. Much of this timber was the remains of old timber felled on license, and was of a very inferior description. It was quite right to remove it from the forest, but it should have been sold for what it was worth at a depôt as near the forest as possible.

The demand for sleepers fell off during the year, but this was probably due to the fact that large supplies were made from Native zemindaries, and also from wood illicitly felled in the Agency tracts. A very large number of logs cut into lengths for sleepers were confiscated by the Acting Conservator and Mr. Lushington in the Poudakhol Mutta whence the export of timber had been forbidden by Government orders. Altogether only 2,373 sleepers were sold from the depôts and 209 logs of sál from the forests.

In form 69 a balance of 1,660 logs is shown containing 26,201 cubic feet. As this is quite misleading, the Acting Conservator advises that it be written off the accounts. The entry was made in accordance with a suggestion of Mr. Gamble that stock should be taken of all the logs lying about the Mojjagodo range, the remains of the old wasteful system of felling under license. These logs were measured as they lay in the forests, and an erroneous return was the consequence; for in the first place outside measurements were probably taken with no allowance for flaws or squaring, and in the second place most of the wood that is visible in the forests is so deteriorated as not to be worth carting. All that was worth taking out was removed by Messrs. Harden and Co., and it seems to the Acting Conservator doubtful if the stock account was accurately credited with the stock so removed. At any rate the wood should never have been entered into any returns till it was removed to some depôt, which is probably what Mr. Gamble intended. The accounts as they stand are utterly fictitious, and it is advised that a fresh start be made and this stock removed from the accounts.

In *Vizagapatam* there were no departmental fellings.

Godávari.—Work was delayed for want of elephants, which have now been purchased from the Commissariat at Secunderabad, four males.

Four-hundred logs were felled. 154 logs containing 1,716 cubic feet were brought to the bank of the river in Bhadráchalam. The floods carried away 89 cubic yards of fuel.

Drift timber.—In the lower taluks 3,550 pieces of drift timber were collected containing 20,658 cubic feet, including the cubic contents of a boat; also 7,518 cubic feet of fuel and 6,330 bamboos. The greater part of this wood is teak and comes from the Nizam's dominions or some portion of the Upper Godávari. The rewards and charges for collection were Rs. 2,388 and the sum realised was Rs. 8,980. The drift wood collected at Bhadráchalam is floated down to Rajahmundry for sale. It was not sold during the year.

Kistna.—Departmental work was limited to thinning in plantations.

Nellore.—Forty-seven casuarina trees and 200 poles were sold to the Executive Engineer of the Buckingham Canal. About 15,000 pegs and 9,000 stakes were sold to the Salt Department.

Fuel work at Sríharikót.—2,983 tons of junglewood were collected.

The market was glutted with storm wood, so that less wood was cut in Sríharikót than usual. The receipts at the Madras depôt were Rs. 30,645.

The following minor produce was collected:—

	MAUNDS.
Chay root (*Oldenlandia umbellata*)	95
Nux-vomica seeds (*Strychnos nux-vomica*)	165½
Sarsaparilla	224
Orchella (*Rocella montaigne*)	7
Isorara	27
Vishabuddhi (*Sida acuta*)	8
Kukkapala	9
Rattan bundles	183

Cuddapah.—In form 68 is entered 12,184 bamboos. The thinnings of 147 trees in the Kódúr plantation of red sanders is included under form 69. The rest of the red sanders posts shown in the latter form were collected from demarcation lines. The collection of redwood roots and red sanders posts was larger than usual, and there were 387 tons on hand at the end of the year. Prices were rather lower, being Rs. 17 and 17-8-0 a ton.

Kurnool.—Departmental work almost nothing.

Bellary.—Departmental operations were confined chiefly to thinnings in Sandúr.

Anantapur.—Departmental work almost nothing.

Nilgiris.—The budget under timber was very widely departed from. The deficiency in the operations is attributed to a variety of causes; the employment of a contractor for thinning operations in Mudumallai, who absconded with an advance, the condition of the elephants who were not in working order, change of officers in charge of the range; but the Acting Conservator believes that one of the main causes was an exaggerated budget estimate.

Haphazard felling and haphazard estimates have been the rule, and they have continued, although the working of the forest on a systematic method was ordered and inaugurated by Mr. Gamble, which is certain to lead to a much smaller revenue under this heading at first. The estimates probably escaped notice in the Central office. Even allowing, however, for the estimate having been exaggerated, the work in Mudumallai and Benne was very slack during the year.

Mr. Lushington pushed on work in February. The sales of firewood during the year from the plantations were good.

Removal by Purchasers.

35. *Form* 72 gives the sales direct from the forests. The following abstract gives the figures compared with last year of timber and other produce removed by purchasers:—

District.	1886-87.	1887-88.
	RS.	RS.
Ganjam	16,619	15,384
Vizagapatam	3,958	5,279
Godávari	43,562	63,265
Kistna	76,116	76,524
Nellore	31,811	44,207
Cuddapah	1,12,090	1,12,232
Kurnool	77,426	75,614
Bellary	19,206	23,605
Anantapur	17,789	18,522
Nilgiris	10,501	9,272
Total	4,09,078	4,43,904

Ganjam.—There was a slight decrease.

Vizagapatam.—The removals by purchasers were of the value of Rs. 5,279 against Rs. 3,958 last year, which is satisfactory, as so little has hitherto been received from this district.

Godávari.—The receipts under this head were Rs. 63,265 against Rs. 43,562 last year. The higher charges and the fact that payment is now made by the cubic foot, instead of by the log, drove merchants away last year, but matters are now righting themselves. The improvement in minor produce is due partly to a better system in the lower taluks, but chiefly to the fact that the revenue realized from the usufruct of trees on ashalminha lands has been credited to forests.

Kistna.—Almost all the revenue on wood, &c., comes under this head. About Rs. 22,000 is collected on the permit system against an expenditure of Rs. 2,300. The rest of the revenue is from auction sales and trees on darkhast and poramboke lands. The decrease under minor produce is due to a short crop of soapnuts and tamarinds, and to the loss of Rs. 2,000 which used to be realized from the Chigurukota forest now given on patta (Board's Proceedings, Forest No. 422, of 22nd July 1887).

Nellore.—It has been held advisable to give rest to the areas which grow tangedu; and the right of collecting has been sold in the Kanigiri taluk alone for Rs. 4,600.

Cuddapah.—Much the same, as usual a decrease under timber being compensated for by an increase under grazing.

Kurnool.—There were 1,200 tons of timber removed less than last year owing to the introduction of a new system of sale of trees standing, a new system always puzzling the merchants at first. The firewood figures 13,315 tons were almost the same as those of last year. The export of tangedu has increased.

There is a very large trade in the fibre of the bark of *Hardwickia binata* (Yépi).

Minor produce was very deficient, as rights have been given to the Chentzus to gather and sell it where they like, the result being that it all goes to merchants.

Bellary.—There was an increase of Rs. 2,000 over the receipts of last year under II (*a*) owing to a better valuation of trees on darkhast lands; also an increase of Rs. 1,000 under II (*b*) on account of a large demand for jaggery-boiling works; and an increase of Rs. 1,300 under II (*e*) on account of a great demand for tangedu.

Anantapur.—The chief revenue comes under this head, the two main sources being *Acacia arabica* and topes (Rs. 5,135) and tangedu bark (Rs. 7,594). Permits for tangedu paid better than leases last year, for Rs. 4,968 was received for permits in Dharmavaram and Penukonda taluks against Rs. 2,626 for the other five taluks by lease. The shrub wants protection in this district.

Nilgiris.—There was a decrease compared with last year, which is not explained in the report.

Free grants.

36. The following list is made out in accordance with the statements sent in by the District Forest-officers. It shows the difficulty of arriving at statistics from insufficient data; and the Rs. 42,000 estimated as the value of concessions in Kistna is probably not so much an error on one side as the blank statement from Anantapur or the Rs. 10 from Bellary. There are no means at present of arriving at the estimate of the amount taken free from Government land:—

	Rs.	Rs.
Ganjam—		
Timber and bamboos	1,720	
		1,720
Vizagapatam—		
Timber and firewood	3,004	
Minor produce	2,386	
		5,390
Godávari—		
Timber	85	
		85
Kistna—		
Free grazing on waste lands	40,000	
Right to leaves for fodder	2,000	
		42,000

	Rs.	Rs.
Nellore—		
Timber	430	
		430
Cuddapah—		
Timber	575	
Bamboos	305	
		880
Kurnool—		
Timber and bamboos	120	
		120
Bellary—		
Firewood	10	
		10
Nílgiris—		
Timber	210	
		210
Grand Total ...		50,845

For details of free grants, *vide* appendix (F).

Drift and confiscated wood.

37. The total under this heading was Rs. 9,328 (of which Rs. 6,740 were collected in Godávari) against Rs. 4,554 collected last year.

CHAPTER VI.

Financial Results.

38. *Financial results.—Form No.* 64 gives the summary of revenue and expenditure for the year, the result being—

	Rs.
Revenue	5,64,723
Expenditure ... ... A. 2,18,009 B. 2,35,785	4,53,794
Surplus ...	1,10,929

This surplus is less than that of last year by a sum of Rs. 6,353, though the total revenue exceeds that of last year by Rs. 12,475. The net revenue is 19·6 of the gross revenue.

The comparison of revenue and expenditure for the different districts is given below. The form is somewhat enlarged this year so as to show side by side the budget figures and the actuals:—

Districts.	Revenue.			Expenditure A.		
	Sanctioned.	Actual.	Difference.	Sanctioned.	Actual.	Difference.
1	2	3.	4	5	6	7
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Direction	..	27	+ 27	1,900	360	— 1,540
Ganjam	68,000	20,079	— 47,921	35,500	25,273	— 10,227
Vizagapatam	7,400	5,389	— 2,011	5,400	1,256	— 4,144
Godávari	67,000	70,323	+ 3,323	25,000	12,176	— 12,824
Kistna	70,000	77,665	+ 7,665	13,000	15,797	+ 2,797
Nellore	91,000	80,290	— 10,710	42,300	38,998	— 3,302
Cuddapah	1,29,900	1,45,202	+ 15,302	44,800	46,176	+ 1,376
Kurnool	90,000	78,157	— 11,843	38,600	16,203	— 22,397
Bellary	27,000	28,860	+ 1,860	21,700	17,978	— 3,722
Anantapur	16,700	19,655	+ 2,955	3,100	2,690	— 410
Nílgiris	58,000	39,076	— 18,924	44,700	41,102	— 3,598
Total. ..	6,25,000	5,64,723	— 60,277	2,76,000	2,18,009	— 57,991

Districts.	Expenditure B.			Total deficit or surplus.	
	Sanctioned.	Actual.	Difference.	Sanctioned.	Actual.
	8	9	10	11	12
	Rs.	Rs.	Rs.	Rs.	Rs.
Direction	50,902	57,729	+ 6,827	— 52,802	— 58,062
Ganjam	12,335	14,842	+ 2,507	+ 20,165	— 20,036
Vizagapatam	7,200	6,431	— 769	— 5,200	— 2,298
Godávari	15,950	16,100	+ 150	+ 26,050	+ 42,047
Kistna	22,633	21,169	— 1,464	+ 34,367	+ 40,699
Nellore	23,978	19,959	— 4,019	+ 24,722	+ 21,333
Cuddapah	28,990	28,894	— 96	+ 56,110	+ 70,132
Kurnool	30,893	23,800	— 7,093	+ 20,507	+ 38,154
Bellary	17,808	12,863	— 4,945	— 12,508	— 1,981
Anantapur	10,550	11,340	+ 790	+ 3,050	+ 5,625
Nílgiris	24,761	22,658	— 2,103	— 11,461	— 24,684
Total	2,46,000	2,35,785	—10,215	+ 1,03,000	+ 1,10,929

39. These divergences from the estimates are in some cases so considerable that an explanation is necessary.

40. Under *Revenue* the chief deficits occurred in Ganjam, Nellore, Kurnool, and the Nílgiris. In Ganjam the deficit was under I-*a* (Timber) and has been explained in a previous chapter. In Nellore the deficit occurred under I-(*b*) (Firewood) and was due to the absence of demand in the Madras depôt, since the market has not yet recovered from the glut of wood poured into it at the time of the cyclone. There is, therefore, a considerable stock left unsold at the end of the year. In Kurnool, the chief deficit was under II-*b*. (Firewood) and was owing, in great measure, to the non-realisation of the sums expected from the Bellary-Kistna State Railway. The dispute has now been settled. There was a smaller deficit under II-*a* (Timber removed by purchasers) owing to the fact that merchants kept away from the forests for some time when the system was introduced of payment by the tree, and when the working up of timber in the forest was forbidden. However, towards the end of the year there was a great rush made towards this trade, and since the end of the official year it has been found that the terms which originally frightened the merchants were far too liberal. In the Nílgiris, the deficit occurred chiefly under I-*a*. (Timber) and has been explained in a former chapter.

The chief surpluses occurred in Kistna and Cuddapah, being due in the former chiefly to increased revenue under grazing, and in the latter to a larger sale than usual of timber and fuel, but chiefly to higher prices received under II-*e*. (Other minor produce) for the proceeds of topes.

41. Under *Expenditure*, the failures to expend the allotted amounts under A (Conservancy and Works) occurred chiefly in Ganjam, Godávari, Nellore, Kurnool, and the Nílgiris.

In Ganjam the failure was chiefly under I-*a*. (Timber) and VII-*a*. (Roads). The matter has been adverted to in previous chapters. The absence of the permanent District Forest-officer was the cause of part of this failure.

In Godávari and Kurnool, the failures under VI-*a*. and *b*. (Purchase and feed of cattle) occurred through the non-purchase of elephants, as detailed before.

In Nellore, the allotments under A VI-*c*. (Stores, tools, and plant) and under VII-*b*. (Compensation) were not fully utilized: the former owing to a delay in indenting for an addition to the tramway, the latter to a delay in the settlement of Rokkadayam claims in Srîharikóta.

In Kurnool, the allotments under A VII-*d*. (Roads) and VII-*b*. (Buildings) were not utilized. The lapsing of the money under the latter heading is particularly to be deplored, as the officer's house at Nandyál is not fully paid for and some Range houses have not been built. There was a legitimate saving under Demarcation; for, much expenditure was saved by paying the coolies in part with the wood cut on the lines.

In the Nílgiris, the failures occur chiefly under I-*a*. (Timber) and under VII-*b*. (Buildings). The former item has been referred to in a previous chapter. Part of the failure under the latter heading was due to the abandonment of a project to build at Mudumallai, owing to the unhealthiness of the site; but an alternative site should have been chosen and the money utilized.

The rest of the deviations are small.

42. Under B (Establishment) the decrease occurs chiefly under Direction, Nellore, Kurnool, Bellary, and the Nílgiris, under the heads I (Salaries) and II (Travelling allowance). These savings were due partly to the absence of Messrs. Vincent, A. W. Lushington and Sweet, and of Colonel Jago; and partly to the transfer of Mr. P. M. Lushington to the Nílgiris, his pay having been provided for in the budget for Kurnool. The full allotments under Direction I and II (*c*) (Subordinate establishments were not spent, as the sanctioned staff was not maintained at its full graded strength) throughout the year.

43. *Form No.* 65 shows the liabilities outstanding against "contractors and disbursers," chiefly the latter showing a balance in favor of the department of Rs. 39,681. The largest outstandings occur in Ganjam, Kurnool, Godávari, Nílgiris and Kistna, for Rs. 27,000 which stands against Nellore has been adjusted in this year. This was the sum provided in anticipation for compensation for the settlement of claims in that district. The advances in the first five districts mentioned above consist of advances to subordinates for current work.

44. *Form No.* 66 shows the outstandings of revenue amounting to Rs. 3,732 mostly in Ganjam and Kistna. In Ganjam the outstandings are due for timber sold to merchants, but the source is not known of the outstandings in Kistna.

45. *Form No.* 67 gives the distribution of revenue and expenditure under the three heads of "Departmental timber works," "Other revenue" and "Improvement of forests." The ratios adopted for the year in the division of the direction charges were Vizagapatam, 1; Bellary and Anantapur, 2; Ganjam, Godávari, Kistna, 3; and the rest four-thirtieths.

46. *Forms Nos.* 73 (*a*) *and* 73 (*b*) show the comparison between the value of (1) timber, &c., and (2) stores, tools and plant at the beginning and end of the year. The true value of the year's transactions therefore is—

		Rs.
Net revenue		1,10,929
Outstanding revenue	+	3,732
Do. advances	+	39,681
Value of timber, &c.	—	740
Do. of stock	+	17,700
Total ...		1,71,302
From this should be deducted the erroneous stock balance in Ganjam, referred to in Chapter V, para 34, namely, 26,201 cubic feet at 4½ annas a cubic foot		7,369
Correct Surplus ...		1,63,933

Elephants.

47. *Form No.* 74 gives the particulars of these. The condition and work of these is not very satisfactory. The elephant reported to be pregnant gave birth to a calf on the 22nd February 1888.

CHAPTER VII.

General Remarks.

48. In Ganjam Mr. Lushington spends a large proportion of his time on tour, and is making efforts to remedy the failure up to date of making the working of these forests a financial success. Terms are being debated with the manager of the Aska factory to have wood sawn there so as to save much expenditure in carriage. However, the main element of success will result from a strict enforcement of the rule

at present in force prohibiting export of timber from part of the Agency tracts and from the extension of this rule, if possible.

49. In this district Mr. McLaughlin is specially commended among the rangers; and Mr. Newman has shown some capacity in raising the revenue of the Berhampore taluk.

Health generally indifferent; much fever.

In *Godávari* Mr. Battie's work has been satisfactory. The extension of the Forest Act to Juddengy has been proposed. Two of the three Koyas tried as forest guards have proved worse than useless.

The work of the Sub-Assistant Mr. Stafford is reported to be unsatisfactory this year.

Ranger Viswanatham Pantulu is specially commended.

Ranger Eggia Sastry, from Dehra Dún, promises well.

None of the foresters in the district are said to show any promise.

The health of the establishment was bad. The second clerk, a guard, and a tannadar died and the Sub-Assistant has been constantly complaining of fever.

In *Kistna* Mr. Homfray was laid up for two months from an accident, but spent 228 days out of the other ten months in camp attending chiefly to settlement, the importance of which he recognised and to which he devoted great attention. The health of the establishment was generally good.

Nellore.—Mr. Brougham had particularly hard work with settlement and showed great care in attending to his duties under this head. This matter came particularly under the notice of the Acting Conservator, and he has great pleasure in testifying to Mr. Brougham's attention. Mr. Vincent before leaving had sent a special warning about the importance of settlement in Nellore; and it was found that most of the important defences had to be entirely remodelled by Mr. Brougham.

Cuddapah.—Mr. Higgens had very hard work in finishing up settlement before leaving. Mr. Lodge has carefully worked out the details which required looking into.

Among the rangers, Mr. Ward in Kódúr and Mr. Callanan in Badvél are specially commended. There were five deaths in the subordinate establishment.

In *Kurnool* some of Mr. Hooper's work has already been commented on, but besides that work he devoted much attention to selection. The health of the establishment was peculiarly bad, and work was much hampered in consequence. The work of Acting Ranger Dorasawmi Aiyer and Forester Anantha Charlu is specially noted, with the remark that the work of the latter was much interfered with by ill health. The Ranger Leipenstein gives some promise.

Bellary.—Mr. Sweet was in charge of Anantapur and Bellary, the former being in immediate charge of M.R.Ry. Somasundra Mudaliar. Mr. Sweet was unfortunately so ill during the greater part of the year that his work cannot be gauged by any ordinary test. Mr. Ward, Acting Sub-Assistant from Cuddapah, took Mr. Sweet's place. Mr. Ward's work as a ranger in Cuddapah received high commendation from Mr. Lodge.

Anantapur.—M.R.Ry. Somasundra Mudaliar spent 210 days in camp out of 268, which showed great attention to his duties.

Nílgiris.—The work of the Sub-Divisional officer Nallasawmy Naidu in Coonoor and Kótagiri is specially to be commended. Mr. P. M. Lushington was very active during his short tenure.

50. The annual reports from the districts reached much more punctually this year, the due date being the 15th May: the reports only of Ganjam (23rd), Godávari (21th) and Vizagapatam (31st) were more than two days out. However, many of the returns had to be sent back for correction, and returns are still due from Ganjam, which delays the final completion of the tabular statements.

51. These tabular statements have been, however, all printed this year, leaving blanks for missing returns; and with few exceptions are on this date (18th July) ready, having passed through three proofs. In form No. 72 it is hoped that the figures are all correct this year, so that the marginal notes calling attention to the fact that the District Forest-officers' figures differ from those of the Examiner are omitted.

52. The *service books* are reported to be all kept up.

APPENDIX.

Experiments and Exotics.

In Kistna, the mahogany cultivation is a dead failure in the Kistna sands and grass lands, and the fact may be admitted and further attempts stopped. Some plants put in partial shade in the Bezváda reserve are said to be doing better, but it is doubtful if the climate is moist enough.

Of all the trees attempted in the experimental garden, the rain-tree (*Pithecolobium saman*) and the *Kigelia pinnata* seem to flourish the best. The soil is sandy. The *Kigelia* is believed to be of African origin, and the young trees show the peculiarity marked in the older specimens of having an abnormally thickened stem, suddenly tapering. Arabian date trees are coming on slowly but fairly in sandy soil.

In Nellore, the following table shows the experiments:—

Description of plants.	Remaining at the commencement of the year.	Planted during year.	Total.	Casualties.	Plants alive on 1st April 1888.
Teak	363	..	363	128	235
Mahogany	994	719	1,713	418	1,295
Sissu	..	1,030	1,030	654	376
Trincomalí	5	..	5	..	5
Adenanthera pavonina	..	480	480	340	140
Edible prickly-pear	12	..	12	..	12
Ironwood	60	..	60	29	31
Date	100	..	100	..	100
Paldi Tangedu	55	..	55	..	55
Cashewnut	47	..	47	..	47
Eucalyptus	3	..	3	..	3
Pelloplorum	6	..	6	..	6
Bamboo	24	..	24	..	24

Mahogany is a failure at Sriharíkóta in the sandy soil. Edible date is growing fairly. Edible cactus (prickly-pear) has not shown great growth during the year, but seems healthy. Ironwood seedlings were killed out by the brackish water after the floods in October.

In Cuddapah, edible date seedlings are doing well, especially in sandy soil. One hundred seedlings were given to the Ryots' association at Madanapalle. The offshoots of edible dates received from Arabia two years ago were planted out in two lots. The first lot was placed in pits 4 feet apart, and all the plants are well-established. The second lot was placed in trenches and rather crowded, and are rather backward and unhealthy.

The *Eucalypti* planted at Horsleykonda are very weedy.

The following seedlings were planted out there:—

Acacia Melanoxylon	5
Acrocarpus fraxinifolius	192
Eucalyptus rostrata	15
Cupressus torulosa	103

The average girth of red sanders on the sample area regularly reported on is said to have risen 1·03 inches; but the experiment is vitiated by the fact that many trees were blown down by the cyclone, and the tops of others broken over.

In Bellary, the silo formed at Yetinhatti in September 1886 was opened in April 1888. The delay was on account of the difficulty of getting bullocks for experiment. However, when through the influence of the Rajah of Sandúr some bullocks were procured for the experiment, the ensilage (grass) was found to be in such good condition that there was a rush for it. The experiment must be considered a success.

In Anantapur, the date seedlings brought from Cuddapah, and the edible cactus are doing well. They are to be transplanted shortly. The date seedlings transplanted last year into the Anantapur reserve are doing well.

On the *Nilgiris* experiments were made with many species of trees.

In the Ootacamund range 12 acres were planted with *Eucalpytus globulus*, 6 acres with cypress, 1½ acres with *Acer Campbelli* and *Frenela*, vacancies being filled up with *Pinus longifoil* Shola plants, Blue-gum, Cryptomeria, Frenela, Cypress, Acacia, and Maples.

In the Coonoor range the following trees were planted—

	Number.
Grevillea robusta	1,038
Eucalyptus botryoides	119
Do. esignifera	7
Do. goniscaly	33

	Number.
Podocarpus elongatus	95
Curtisia fagnia	24
Bucklandia populnea	71
Frenela rhomboidea	2,209
Pinaster	600
Acacia decurrens	526
Cupressus torulosa	150
Casuarina suberosa	13,730
Meliosma arnottiana	74
Pinus longifolia	163
Oak	84

In the Kullar range, in addition to the ironwood and teak plantation, 2,494 mahogany plants were put into compartments 9 and 10 of block II of the Kullar reserve and the failures of previous years were filled up with 1,380 plants and all are doing well. Here mahogany planting is a great success. The trees planted in 1885-86 show a very fine growth, especially in places where there is sufficient moisture, where they attain a height of from 10 to 14 feet. In some cases they have been attacked by a borer, and some experiments have been made to combat this pest by syringing the holes with kerosine oil, and soap and water. The latter is believed to be effective, but the experiments are not conclusive.

In addition to the mahoganies, 2,475 plants of *Adenanthera pavonina* and 3,642 plants of sissu have been put into this reserve, of which about 25 per cent. were failures.

The work on the whole in the Ootacamund range was not altogether satisfactory, as the Ranger there required more immediate superintendence.

In the Coonoor Sub-division the work was excellent and reflects great credit on the Sub-divisional officer, Nallasawmy Naidu :—

A.—Statement showing the demarcation work done and the cost incurred therefor during the years 1884-85, 1885-86, 1886-87 and 1887-88.

Districts.	1884-85.			1885-86.		
	Miles.	Number of posts or cairns erected.	Cost including value of cairns.	Miles.	Number of posts or cairns erected.	Cost including value of cairns.
1	2	3	4	5	6	7
			Rs.			Rs.
Ganjam ..	117	..	1,320	122	..	1,509
Vizagapatam	..	..	..	..	..	36
Godávari	..	..	..	8	..	26
Kistna ..	9½	1,186	761	48½	197	2,047
Nellore ..	..	..	2	..	..	3
Cuddapah	141	..	1,681	119	..	2,475
Kurnool ..	45	..	4,799	4	..	1,504
Bellary ..	5½	73	516	56	252	573
Anantapur	24½	..	283	55½	105	505
Nilgiris ..	118	3,043	2,153	156	4,889	3,924
Total ..	460½	4,296	11,515	569½	5,443	12,602

Districts.	1886-87.			1887-88.		
	Miles.	Number of posts or cairns erected.	Cost including value of cairns.	Miles.	Number of posts or cairns erected.	Cost including value of cairns.
	8	9	10	11	12	13
			Rs.			Rs.
Ganjam	159	109	3,119	138½	5,668	4,817
Vizagapatam	..	..	148	..	..	14
Godávari	236	..	1,884	265	..	2,322
Kistna	87	345	1,986	206	896	4,826
Nellore	..	27	26	429	1,560	2,967
Cuddapah	162	2,689	5,467	177	2,747	5,650
Kurnool	28	160	714	175	..	749
Bellary	165	249	1,379	120	819	1,049
Anantapur	37	273	1,542	15½	403	403
Nilgiris	129	3,481	2,937	119	3,317	2,210
Total ..	1,003	7,333	19,202	1,645	15,410	25,007

B.—Statement showing the yield of several compartments felled and thinned during the year according to the plans of operations.

Name of range.	Name of working circle.	Name of plantation.	Number of compartment.	Area thinned or felled. Acres.	Area thinned or felled. Cents.	Age when felled or thinned.	Number of trees felled.	Firewood. Lots.	Firewood. Lb.	Head loads branchwood. Number.	Head loads branchwood. Lb.	Bullock loads branchwood. Number.	Bullock loads branchwood. Lb.
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Ootacamund ..	Governor's shola ..	Baikie	3	12	..	13	517	96	480,000	69	5,520	..	..
		Governor's shola	2	12	..	6	1,540	304	1,520,000	2,758	220,640	..	..
		Andy	..	17	..	6	638	79	395,000	3,189	255,120	3	600
	Cairn hill reserve ..	Buthry plantation ..	1	5	..	9	758	106	529,000	741	59,280	..	..
	Aramby	Aramby	6	4⅓	..	14	1,218	481	2,417,000	3,198	255,840	..	..
		Koolie	8	2¾	..	7	912	93	465,000	372	29,760	..	..
		Do.	11	2¾	..	7	725	147	735,000	726	58,080	..	..
Coonoor	Coonoor peak reserve ..	Old forest plantation ..	5	5	..	14	575	113	509,000	1,299	103,920	441	88,200
			14	3	5	14	826	139	626,000	769	61,520	200	40,000
			17	3	4	14	1,089	272	1,223,500	2,276	182,080	..	..
			20	3	7	14	839	183	824,000	1,447	115,760	181	36,200
			22	6	8	14	2,908	521	2,345,500	3,827	306,160	269	53,800
			30	3	5	..	29	13	58,250	..	..	..	..
			31	5	1	14	990	236	106,200	2,714	217,120	181	36,200
			38	5	3	..	17	15	Posts and 2 poles.	..	..	..	..
			40	4	5	14	60	18	81,000	..	..	..	..
	Bandy shola	Bandy shola plantation ..	1	3	75	29	84	Loads 17¼	174,250	144	11,520	..	..
			23	2	25	29	23	70	70,000	214	17,120	..	..
			24	2	95	29	97	259	259,000	375	30,000	..	..
			2	1	45	..	..	..	..	170	13,600	..	..
			9	2	60	..	..	..	..	..	..	14	2,800
	Bleak house	Bleak house plantation ..	4	5	50	29	493	204	204,000	708	96,640	..	..
			6	9	..	29	128	92	92,000	1,941	411,280	..	..
		Total ..	..	120	88	..	14,466	..	..	..	..	..	..

B.—Statement showing the yield of several compartments felled and thinned during the year according to the plans of operations—*cont.*

Name of range.	Name of working circle.	Name of plantation.	Drag poles. Number.	Drag poles. Lb.	Total yield in lb.	Total yield in tons.	Number of belt trees.	Number of standards left.	Total trees.	Estimated quantity of standing trees in tons.	Total yield in tons.	Yield per acre in tons.	Remarks.
			15	16	17	18	19	20	21	22	23	24	25
Ootacamund ..	Governor's shola ..	Baikie	..	..	485,520	216	..	..	..	..	216	18	
		Governor's shola	..	..	1,740,640	777	..	..	..	..	777	64¼	
		Andy	..	..	650,720	290	..	..	..	..	290	17	
	Cairn hill reserve ..	Buthry plantation ..	..	..	588,280	262	..	..	..	..	262	52	
	Aramby	Aramby	..	..	497,540	222	..	..	..	..	222	49	
		Koolie	..	..	494,760	220	..	..	..	..	220	80	
		Do.	..	..	793,080	354	..	..	..	..	354	31½	
			632	31,600	732,720	326¼	..	..	..	..	326¼	65¼	
			432	21,600	749,120	334¼	382	240	622	253	587¼	193	
			120	6,000	1,411,580	630	500	307	807	711½	1,341½	441½	
			728	36,400	1,012,360	452	..	160	160	77½	529½	172½	
	Coonoor peak reserve ..	Old forest plantation ..	1,280	64,000	2,769,460	1,235½	..	403	403	170½	1,406¼	231	
			..	..	58,250	26	..	..	..	..	26	*8½	
			280	14,000	1,329,320	593	483	189	672	402½	995½	199	
			..	..	..	..	..	..	..	..	..	..	For seed-house.
			..	..	81,000	36	..	..	..	..	36	9	
Coonoor			..	..	185,770	83	40	55	95	94	177	..	
			..	..	87,120	39	..	53	53	89¼	128¼	..	
	Bandy shola	Bandy shola plantation ..	..	..	289,000	129	..	50	50	66	195½	..	
			..	..	13,600	6	..	..	..	..	†6	..	
			..	..	2,800	1¼	..	..	..	..	†1¼	..	
	Blackhouse ..	Bleakhouse plantation ..	380	19,000	319,640	142½	75	140	215	62¼	205	..	
			..	..	503,280	224¼	..	..	..	..	..	..	
		Total ..	..	..	..	6,599	..	..	..	1,926¼	8,302¼	1,631¼	

* This was cut on account of the new road between compartment Nos. 31 and 32.
† Removed from last year's stock.

C.—Statement showing the cost and yield, up to 31st March 1888, of the Casuarina plantations in Nellore and Gúdúr taluks.

Plantation.	Compartment number.	Area.	Year of planting.	Total expenditure up to 31st March 1888.	Cost per acre.	Yield up to 31st March 1887.	Approximate return up to 31st March 1887.		Yield during 1887-88.				Approximate return during 1887-88.		Grand Total.	
							Rate.	Amount.	Thinning and cutting dead wood.	Clean felling.			Rate.	Amount.	Total tons 7 and 13.	Amount 9 and 15.
									Tons.	Area.	Tons.	Total.				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
				Rs.	Rs.		Rs.	Rs.					Rs.	Rs.		Rs.
Dugarázpatnam ..	1 & Extra interplanted.	45	1873 1874	10,131	225	344	6	2,064	1,196	..	..	1,196	5	5,980	1,540	8,044
	2	26	1874	6,907	265	589	..	3,534	..	..	..	..	..	..	589	3,534
	3	30	1875	6,448	215	754	..	4,524	..	..	..	..	..	..	754	4,524
	4	59	1880	3,397	57	385	..	2,310	159	..	..	159	..	795	544	3,105
	5	104	1881	4,416	42	262	..	1,572	416	..	..	416	..	2,080	678	3,652
	1882	4	1882	..	..	20	..	120	9	..	..	9	..	45	29	165
	1883	73	1883	3,371	46	..	..	..	15	..	..	15	..	75	15	75
	1884	60	1884	2,386	40	..	..	..	9	..	..	9	..	45	9	45
	1885	30	1885	1,254	42	..	..	..	..	..	..	..	..	..	..	..
	1886	60	1886	332	5	..	..	..	..	..	..	..	..	..	..	..
	1887	100	1887	494	5	..	..	..	..	..	..	..	..	..	..	..
Kottapatam	1	24	1873	6,004	250	1,051	..	6,306	103	..	..	103	..	515	1,154	6,821
	Interplanted.		1874	6,536	272	884	..	5,304	..	..	..	..	..	..	884	5,304
	2	24	1874													
	3	32	1875	6,170	190	806	..	4,836	690	..	..	690	..	3,450	1,496	8,286
	4	40	1880	3,082	77	74	..	444	124	..	..	124	..	720	198	1,164
	5	112	1881	4,407	39	188	..	1,128	768	..	..	768	..	3,840	956	4,968
	1882	16	1882	..	..	..	..	..	..	..	..	..	..	..	..	..
	1883	22	1883	1,010	45	1	..	6	..	..	..	..	..	..	1	6
	1884	37	1884	1,462	39	..	..	..	..	..	..	..	..	..	..	..
	1885	30	1885	889	29	..	..	..	..	..	..	..	..	..	..	..
	1886	25	1886	181	7	..	..	..	..	..	..	..	..	..	..	..
	1887	50	1887	448	8	..	..	..	..	..	..	..	..	..	..	..
Chattram tope .. .. Pamanji tope	Resumed by Government under tope rules.					120 169	.. ..	720 1,014	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	120 169	720 1,014
Tamminapatam ..	1	41	1873	12,142	296	769	..	4,614	..	..	..	..	..	..	769	4,614
	Interplanted.		1874	9,576	162	1,608	..	6,048	..	..	..	..	..	..	1,008	6,048
	2	59	1874													
	3	29	1875	7,878	272	587	..	3,522	..	..	..	..	..	..	587	3,522
	4	64	1880	3,807	59	12	..	72	128	..	..	128	..	640	140	712
	5	139	1881	5,779	42	22	..	132	104	..	..	104	..	520	126	652
	1882	81	1882	83	1	..	..	..	182	..	..	182	..	910	182	910
	1883	68	1883	2,391	33	..	..	..	1	..	..	1	..	5	1	5
	1884	30	1884	1,184	39	..	..	..	..	..	..	..	..	..	..	..
	1885	10	1885	317	32	..	..	..	..	..	..	..	..	..	..	..

C.—Statement showing the cost and yield up to 31st March 1888 of the Casuarina plantations in Nellore and Gúdúr taluks—*cont.*

Plantation.	Compartment number.	Area.	Year of planting.	Total expenditure up to 31st March 1888.	Cost per acre.	Yield up to 31st March 1887.	Approximate return up to 31st March 1887.		Yield during 1887-88.				Approximate return during 1887-88.		Grand Total.	
							Rate.	Amount.	Thinning and cutting dead wood.	Clean felling.					Total tons 7 and 13.	Amount 9 and 15.
									Tons.	Area.	Tons.	Total.	Rate.	Amount.		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
				Rs.	Rs.		Rs.						Rs.			
Vutukur	1	32	1875	7,527	232	94	5	470	..	..	..	..	..	..	94	470
	2	32	1880	3,927	122	22	..	120	..	..	..	..	..	..	22	120
	3	84	1881	4,656	55	8	..	40	..	..	..	..	..	..	8	40
Varany	1	40	1873	10,339	258	58	..	290	..	..	..	..	..	..	58	290
	Interplanted		1874													
	2	40	1874	8,911	223	115	..	575	..	..	..	..	..	..	115	575
	3	40	1875	8,108	202	50	..	250	..	..	..	..	..	..	50	250
	4	40	1880	3,188	80	35	..	175	..	..	..	..	..	..	35	175
	5	80	1881	4,064	50	12	..	60	..	..	..	..	..	..	12	60
	1883	3	1883	121	40	..	..	..	..	..	..	..	..	..	..	..
	1884		1884													
Ebrow's tope	..	19	Resumed by Government under tope rules.			504	..	3,024	..	..	..	..	..	..	504	3,024
Salt tope	..	4	..	..	..	35	..	210	..	..	..	..	..	..	35	210
Around wells	1886	4	1886	169	42	..	..	..	..	..	..	..	..	..	..	..
	1887	10	1887	242	24	..	..	..	..	..	..	..	..	..	..	..
Resumed by Government.	4	Under tope rules.				118	..	708	..	..	..	..	..	..	118	708
Allipuram	1	18	1870	8,579	476	146	..	730	..	..	..	..	..	..	146	730
	2	36	1881	707	20	..	..	..	..	..	..	..	..	..	..	..
Iskapalle	..	23	1870	960	160	104	..	520	..	..	..	..	..	..	104	520

D.—*Oxen.*

Consecutive number.	Actual amount of wood utilized in lb.	Value. Of wood actually utilized at Re. 1 per load.	Value. Of cutting, splitting and carrying.	Value. Of making or wages of charcoal burners.	Value. Of wastage of wood.	Value. Of sundries.	Total cost of making.	Quantity of charcoal raked.	Rates of column 2 to 9.	Estimated value of charcoal at Re. 1 per 50 lb.	Surplus.	Deficit.
1	2	3	4	5	6	7	8	9	10	11	12	13
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	LB.		Rs. A. P.	Rs. A. P.	Rs. A. P.
1	5,800	5 12 10	3 15 9	1 14 7	1 6 9	0 5 9	13 7 8	500	11½ to 1	10 0 0	..	3 7 8
2	4,500	4 8 0	3 1 6	1 7 8	1 0 10	0 4 8	10 6 8	500	9 to 1	10 0 0	..	0 6 8
3	3,700	3 11 2	2 8 7	1 3 6	0 13 11	0 3 8	8 8 10	350	10½ to 1	7 0 0	..	1 8 10
4	6,700	6 11 2	4 9 9	2 3 3	1 9 2	0 6 10	15 8 2	700	9½ to 1	14 0 0	..	1 8 2
5	6,700	6 11 2	4 9 9	2 3 3	1 9 2	0 6 10	15 8 2	750	9 to 1	15 0 0	..	0 8 2
6	7,000	7 0 0	4 13 0	2 4 9	1 12 2	0 7 0	16 4 11	750	9½ to 1	15 0 0	..	1 4 11
7	5,000	5 0 0	3 7 0	1 11 4	1 2 9	0 5 0	11 10 1	450	11 to 1	9 0 0	..	2 10 1
8	6,200	6 3 2	4 4 5	2 1 8	1 7 3	0 6 6	14 7 0	600	10½ to 1	12 0 0	..	2 7 0
9	6,500	6 8 0	4 7 6	2 2 3	1 5 3	0 6 8	14 13 8	700	9½ to 1	14 0 0	..	0 13 8
10	5,000	5 0 0	3 7 0	1 11 6	1 2 9	0 5 0	11 10 1	600	8⅓ to 1	12 0 0	0 5 11	..
11	5,800	5 12 10	3 15 9	1 14 7	1 6 9	0 5 11	13 7 10	550	10½ to 1	11 0 0	..	2 7 10
12	9,500	9 8 0	6 8 6	3 2 0	2 3 5	0 9 8	21 15 7	950	10 to 1	19 0 0	..	2 15 7
13	9,000	9 0 0	6 3 0	2 15 6	2 2 3	0 9 0	20 13 9	850	10⅔ to 1	17 0 0	..	3 13 9
14	10,000	10 0 0	6 14 0	3 4 7	2 6 0	0 10 0	23 2 7	1,100	9 to 1	22 0 0	..	1 2 7
15	9,000	9 0 0	6 3 0	2 15 4	2 2 9	0 9 0	20 14 3	1,050	8½ to 1	21 0 0	0 1 9	..
16	8,000	8 0 0	5 8 0	2 10 2	1 14 3	0 8 0	18 8 5	1,300	6⅔ to 1	26 0 0	7 7 7	..
17	10,000	10 0 0	6 14 0	3 4 7	2 6 6	0 10 0	23 3 1	1,450	6⅘ to 1	29 0 0	5 12 11	..
18	8,300	8 4 10	5 11 4	2 11 8	1 15 6	0 8 6	19 3 10	1,400	5⅘ to 1	28 0 0	8 12 2	..
19	8,000	8 0 0	5 8 0	2 10 1	2 0 1	0 8 0	18 10 2	1,500	5⅓ to 1	30 0 0	11 5 10	..
20	8,000	8 0 0	5 8 0	2 10 1	1 15 6	0 8 0	18 9 7	1,500	5⅓ to 1	30 0 0	11 6 5	..
21	8,000	8 0 0	5 8 0	2 10 1	1 15 6	0 8 0	18 9 7	1,650	4⅘ to 1	33 0 0	14 6 5	..
22	8,000	8 0 0	5 8 0	2 10 1	1 15 6	0 8 0	18 9 7	1,500	5⅓ to 1	30 0 0	11 6 5	..
23	8,000	8 0 0	5 8 0	2 10 1	1 15 6	0 8 0	18 9 7	1,500	5⅓ to 1	30 0 0	11 6 5	..
Total ..	1,66,700	166 11 2	114 9 10	55 0 7	39 13 6	10 8 0	386 11 1	22,200	7½ to 1	444 0 0	82 7 10	25 2 11

E.—*Common kilns.*

Consecutive number.	Actual amount of wood utilized in lb.	Value. Of wood utilized at Re. 1 per 1,000 lb.	Of cutting, carrying and splitting.	Of making or wages of charcoal burners.	Of wastage of wood.	Of sundries.	Total cost of making.	Quantity of charcoal raked.	Rates of column 1 to 6.	Estimated value of charcoal at Re. 1 per 50 lb.	Surplus.	Deficit.
1	2	3	4	5	6	7	8	9	10	11	12	13
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	LB.		Rs. A. P.	Rs. A. P.	Rs. A. P.
1	9,000	9 0 0	4 8 0	5 0 3	0 11 10	0 9 3	19 13 4	1,150	7¾ to 1	23 0 0	3 2 8	..
2	8,000	8 0 0	4 0 0	4 7 4	0 10 6	0 8 2	17 10 0	800	10 to 1	16 0 0	..	1 10 0
3	15,000	15 0 0	7 8 0	8 5 9	1 0 8	0 15 5	32 13 10	1,800	8 to 1	36 0 0	3 2 2	..
4	10,000	10 0 0	5 0 0	5 10 2	0 13 1	0 10 2	22 1 5	950	10½ to 1	19 0 0	..	3 1 5
5	10,000	10 0 0	5 0 0	5 10 2	0 13 1	0 10 2	22 1 5	1,150	8½ to 1	23 0 0	0 14 7	..
6	10,000	10 0 0	5 0 0	5 10 2	0 13 1	0 10 2	22 1 5	1,100	9 to 1	22 0 0	..	0 1 5
7	12,000	12 0 0	6 0 0	6 11 0	0 15 9	0 12 2	26 6 10	1,300	9 to 1	26 0 0	..	0 6 10
8	9,800	9 12 9	4 14 0	5 5 7	0 12 11	0 10 1	21 7 4	1,000	9½ to 1	20 0 0	..	1 7 4
9	10,000	10 0 0	5 0 0	5 10 2	0 13 1	0 10 2	22 1 5	1,050	9 to 1	21 0 0	..	1 1 5
10	9,430	9 6 11	4 11 6	5 4 1	0 12 5	0 9 8	20 12 7	950	9¾ to 1	19 0 0	..	1 12 7
11	11,000	11 0 0	5 8 0	6 2 1	0 14 4	0 11 4	24 3 9	1,100	10 to 1	22 0 0	..	2 3 9
12	9,300	9 4 10	4 10 0	5 2 11	0 12 3	0 9 7	20 7 7	1,000	9 to 1	20 0 0	..	0 7 7
13	9,800	9 12 10	4 14 0	5 5 7	0 12 10	0 10 1	21 7 4	1,000	9½ to 1	20 0 0	..	1 7 4
14	9,050	9 0 9	4 9 6	5 0 6	0 11 10	0 9 3	19 15 10	900	9 to 1	18 0 0	..	1 15 10
15	10,000	10 0 0	5 0 0	5 10 2	0 13 1	0 10 2	22 1 5	1,050	10 to 1	21 0 0	..	1 1 5
16	10,000	10 0 0	5 0 0	5 10 2	0 13 1	0 10 2	22 1 5	1,000	10 to 1	20 0 0	..	2 1 5
17	2,000	2 0 0	1 0 0	1 1 6	0 2 8	0 2 0	4 6 2	393	6 to 1	7 0 0	3 7 7	..
Total ..	164,380	164 6 1	82 3 0	91 11 7	13 4 6	10 8 0	362 1 1	17,693	9½ to 1	353 0 0	..	9 1 1

F.—Statement showing free-grants during the year 1887-88.

District.	Authority under which granted.	Range.	Locality.	Name of grantee.	Purpose for which granted.	Produce granted. Description.	Number or quantity.	Value.	Remarks.
								Rs. A. P.	
Ganjam	Collector's order.	Suradá	Bori	Inhabitants of Bori village.	To rebuild their houses burnt by fire.	Sajo	398	1,394 0 0	
						Kosi	150	150 0 0	
						Miscellaneous	316	59 4 0	
						Bamboos	308	77 0 0	
						Wattlings	159	29 12 0	
							..	1,710 0 0	
		Kurcholy ..	Molangi	Inhabitants of Molangi village.	Do. ..	Miscellaneous	47	8 13 0	
						Bamboos	25	3 2 0	
							..	11 15 0	
						Total, Ganjam ..	..	1,721 15 0	
Vizagapatam ..	Do. ..	Pálkonda ..	Pálkonda ..	Not known ..	For building houses..	Timber	Tons 415	1,621 8 0	
					For domestic purposes	Firewood	,, 553	1,382 8 0	
						Minor produce	,, 1,192	2,384 4 0	
							..	5,388 4 0	
						Total, Vizagapatam ..	..	5,388 4 0	
Godávari	Rule 13 of the Forest rules under section 26.	Peddapuram ..	Murari	Rapaka Tatayya and Jaimi Mallayya.	To repair houses destroyed by fire.	Palmyra trees	56	84 0 0	
							..	84 0 0	
						Total, Godávari ..	..	84 0 0	
Kistna	G.O., No. 1342, 16th Oct. 1880.	All ranges ..	....	Government ..	As a relief to the villagers.	Right to graze cattle free of payment on waste lands.	..	40,000 0 0	
	Rules under section 26.	Bandar, Bápatla.	Coast forests ..	Collector	For cattle fodder ..	Right to take the leaves of the "mada" (Aviceunia tomentosa).	Not known.	2,000 0 0	Rough estimate of value.
							..	42,000 0 0	
						Total, Kistna ..	..	42,000 0 0	

F.—Statement showing free-grants during the year 1887-88—*cont.*

District.	Authority under which granted.	Range.	Locality.	Name of grantee.	Purpose for which granted.	Produce granted.			Remarks.
						Description.	Number or quantity.	Value.	
								Rs. A. P.	
Nellore	Collector's order	Kávali ..	Nagalavaram ..	R. Runga Row of Jakapalli, Gudúr.	To rebuild the house burnt by fire.	Margosa trees	3	6 0 0	
						Palmyra do.	15	15 0 0	
			Tallúr	Do. ..	Do. ..	Margosa do.	5	11 0 0	
			Anemadugu ..	C. Ramakrishna Reddi and others.	Do. ..	Palmyra do.	67	67 0 0	
			Channayyapalem.	K. Atchanna and brothers.	To build a village chavadi.	Do. do.	300	300 0 0	
			Kadamuthalu ..	Village officers ..	Do. ..	Do. do.	12	12 0 0	
			Madurapad ..	Do.	Do. ..	Do. do.	20	20 0 0	
						Total, Nellore ..	..	431 0 0	
Cuddapah ..	District Forest-officer's order.	Kodúr * ..	....	Ryots of villages ..	To rebuild their houses destroyed by fire.	Third-class wood	Tons 92	230 0 0	
		Sidhout ..	....	....	....	....	,, 37	92 8 0	
		Badvél † ..	....	....	....	....	,, 26	65 0 0	
		Cuddapah ..	....	....	....	....	,, 17	42 8 0	
		Madanapalle ..	....	....	....	....	,, 6	15 0 0	
		Ráyachóti ‡ ..	....	....	....	....	,, 52	130 0 0	
						..	..	575 0 0	
		Kodúr * ..	....	....	....	Bamboos	Tons 52½	131 4 0	
		Badvél † ..	....	....	....	....	,, 17½	43 12 0	
		Ráyachóti ‡ ..	....	....	....	....	,, 52	130 0 0	
						..	..	305 0 0	
						Total, Cuddapah ..	..	880 0 0	
Kurnool	Tahsildar ..	Sirvel ..	Mahadevapuram ..	Villagers	To rebuild their houses destroyed by fire.	Timber, third-class, rough.	Tons 15	37 8 0	This does not include the grant to right holders, viz., the temple agent Ahobilam under the Forest Settlement-officer's order on Sirvel claim No. 5.
	District Forest-officer.	Yerramalais ..	Pendacul	Chakala Ramagadu and three others.	Do. ..	Bamboos	,, 15	37 8 0	

F.—Statement showing free-grants during the year 1887-88—*cont.*

District.	Authority under which granted.	Range.	Locality.	Name of grantee.	Purpose for which granted.	Produce granted. Description.	Number or quantity.	Value. Rs. A. P.	Remarks.
Kurnool—*cont.* ..	District Forest-officer.	Márkápur ..	Sethakode ..	Villagers ..	To rebuild their houses destroyed by fire.	Timber, third-class, rough ..	Tons. 5	12 8 0	
						Do. ..	,, 13	32 8 0	
						Total, Kurnool ..	..	120 0	
Bellary	Rule 13 of the Forest rules under section 26.	Kúdligi ..	Siddamasethyhalli.	Bijalal ..	For domestic purposes.	Firewood	Tons 1	0 12 0	
			Kakkuppi ..	Ramanjulu Naidu	Do. ..	Do.	,, 1	0 12 0	
			..	Bijalal. ..	Do. ..	Do.	,, 2	1 8 0	
			Amalápuram ..	K. Bheema Row ..	Do. ..	Do.	,, ½	0 6 0	
			Jaramali ..	Do. ..	Do. ..	Do.	,, ½	0 6 0	
			Ammanakeri ..	Do. ..	Do. ..	Do.	,, ½	0 6 0	
			Keriaginahalli ..	Do. ..	Do. ..	Do.	,, ½	0 6 0	
			Gunasagaram ..	Do. ..	Do. ..	Do.	,, 1	0 12 0	
			Kulikunta ..	Do. ..	Do. ..	Do.	,, 1	0 12 0	
			Hulikunta ..	D. Rama Row ..	Do. ..	Do.	,, 2	1 8 0	
			Ammanakeri ..	A. Kristna Row ..	Do. ..	Do.	,, 1½	1 2 0	
			Kakkuppi ..	Seenappa ..	Do. ..	Do.	,, 2	1 8 0	
						Total, Bellary ..	..	10 2 0	
Anantapur ..				*Nil.*					
Nílgiris ..	..	Kundahs ..	..	....	To build new houses and cattle kraals.	Junglewood trees ..	7	21 0 0	Throughout the district the ryots cut their agricultural implements (unreserved kinds) and firewood, &c., free of charge in the unreserved forests as usual.
		Ootacamund ..	..	....	To build new houses and funeral sheds.	Do. do. ..	57	171 0 0	
		Mélúr ..	Athigarhatty ..	Kukka Gounden ..	Ploughing materiáls.	Do. do. ..	Tons 3	6 14 0	
		Coonoor ..	Neduhatti ..	Andy and 5 others..	To build a new house.	Do. do. ..	Trees 2	6 0 0	
		Kótagiri ..	..	Kalen	Ploughing materials.	Do. do. ..	,, 1	3 0 0	
				Kamen	To build a new house.	Do. do. ..	,, 1	3 0 0	
						Total, Nílgiris	..	210 14 0	

ABSTRACT.

	Value. Rs. A. P.
Ganjam	1,721 15 0
Vizagapatam	5,388 4 0
Godávari	84 0 0
Kistna	42,060 0 0
Nellore	431 0 0
Cuddapah	880 0 0
Kurnool	120 0 0
Bellary	10 2 0
Anantapur	..
Nílgiris	210 14 0
Grand Total ..	50,846 3 0

ANNUAL FORM No. 59-A.

Forest Department, Madras, Northern Circle.

Area of Reserved Forests, 1887-88.

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Ganjam ..	Chokapad..	Dhimrijoli	..	..	5,486	..	5,486	8½	No. 414 of 16th December 1887.	
		Total, Ganjam ..	..	..	5,486	..	5,486	8½		
Godávari.	Narsápur..	Narsápur	..	..	114	..	114	..	No. 357 of 25th October 1887.	
		Total, Godávari ..	..	..	114	..	114	..		
Kistna ..	Bápatla ..	Lankavanidibba ..	..	..	4,480	..	4,480	7	No. 17 of 17th January 1888.	
		Kottapalem	..	..	3,840	..	3,840	6	Do. do.	
		Total, Kistna ..	..	..	8,320	..	8,320	13		
Nellore	Ongole ..	Kottapatam plantations.	147	* ..	..	..	147	..	....	* Rectification of area on actual remeasurement.
		Tummalapenta ..	100	..	..	..	100	..	....	
		Kanuparti	520	1	..	..	520	1	....	
		Ramapatam	60	..	..	..	60	..	....	
	Gúdúr ..	Dugarázpatnam plantations.	..	..	23,800	..	23,800	37	No. 258 of 8th July 1887.	
		Total, Nellore ..	827	1	23,800	..	24,627	38		
Cuddapah.	Kódúr ..	Kódúr plantation ..	50	..	..	..	50	..	....	
		Thunakonda ..	1,048	2	..	..	1,048	2	....	
		Uparapalle plantation.	108	..	..	..	108	..	....	
		Kódúr	7,440	11½	..	..	7,440	11½	....	
		Seshachellam ..	128,000	200	..	..	128,000	200	....	
		Settikunta	8,960	14	..	..	8,960	14	....	
	Pullampet ..	Salivendra	..	..	12,800	..	12,800	20	No. 323 of 9th September 1887.	
	Rájampet.	Pullampet plantation.	328	½	..	..	328	½	....	
		Mittamidapalle ..	98	..	..	..	98	..	....	
		Reddipalle	1,284	2	..	..	1,284	2	....	
		Vattalur hill ..	2,880	4½	..	..	2,880	4½	....	
	Ráyachóti	Sibyala	3,500	5½	..	..	3,500	5½	....	
		Tsundapalle ..	3,000	4½	..	..	3,000	4½	....	
		Gadikota	12,462	19½	..	..	12,462	19½	....	
	Sidhout	Kanomalapalle ..	4,435	7	..	..	4,435	7	....	
		Malliemkonda ..	..	..	10,240	..	10,240	16	No. 321 of 9th September 1887.	
	Cuddapah ..	Kamalápuram plantation.	485	1	..	..	485	1	....	
	Váyalpád ..	Yellutla	..	..	2,840	..	2,840	4½	No. 304 of 19th August 1887.	
	Badvél ..	Kavalakuntla, North	..	..	6,080	..	6,080	9½	No. 321 of 9th Sept. 1887.	
		Do. South.	..	..	3,840	..	3,840	6		
		Ganugapenta ..	..	..	14,080	..	14,080	22	Do. do.	
		Total, Cuddapah ..	174,078	272	49,880	..	223,958	350		
Anantapur.	Anantapur.	Anantapur plantation	131	..	..	..	131	..	....	
	Gooty ..	Khojjapalle ..	367	½	..	..	367	½	....	
	Penukonda.	Narsampalle ..	1,280	2	..	..	1,280	2	....	
		Kottakota	5,120	8	..	..	5,120	8	....	
	Hindupur..	Somarazumalai ..	1,920	3	..	..	1,920	3	....	
		Total, Anantapur ..	8,818	13½	..	..	8,818	13½		
Nilgirs..	Ootacamund.	Marliamund plantation.	17	..	..	..	17	..	....	
		Aramby	430	½	..	..	430	½	....	
		Marliamund ..	194	..	..	..	194	..	....	Marliamund, Thorna tope and Nergodumund.

Area of Reserved Forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nílgiris —*cont.*	Ootacamund—*cont.*	Cairn hill	559	1	..	..	559	1	....	Cairn hill, Fairlawns, Madanad and Bathrishola.
		Brooklands ..	177	½	..	..	177	½	....	
		Lovedale	296	½	..	..	296	½	....	Lovedale, Elk hill and Manjinikorai.
		Craigmore	299	½	..	..	299	½	....	
		Doddabetta	991	1½	..	..	991	1½	....	Mainalai, Doddahalla, Doddahalla sholas, Woodcock sholas and Kótagiri trace sholas.
		Snowdon	1,053	2	..	..	1,053	2	....	
		Jakuntha	370	½	..	..	370	½	....	
		Muthanad	420	1	..	..	420	1	....	
		Governor's shola ..	2,694	4½	..	..	2,694	4½	....	Governor's shola, Baikie, Cully, Ulnad, Crormund.
		Pykara	1,309	2	..	..	1,309	2	....	Pykara and Yommaikul.
		Sandynalæ	818	1	..	..	818	1	....	
		Kengodu	415	½	..	..	415	½	....	
		Karpakan	391	½	..	..	391	½	....	
	Naduvatam.	Naduvatam sholas ..	1,501	2	..	..	1,501	2	....	Naduvatam, Ouchterlony, Terrace, Belleive and Carritt sholas.
		Vellingiri	643	1	..	..	643	1	....	
		Kadcoopa	1,622	2½	..	..	1,622	2½	....	
		Makurti	8,953	14	..	..	8,953	14	....	Nílgiri peak, Makurti peak, and Pichobettu.
		Northernhay ..	3,998	6	..	..	3,998	6	....	
		Naduvatam ..	..	..	4,834	..	4,834	8	No. 277 of 22nd July 1887.	
		Gadsbrook ..	..	..	230	..	230	1	No. 18 of 17th January 1888.	
		Cherambadi ..	..	..	1,983	..	1,983	3	Do. do.	
		Amanankaval ..	..	..	563	..	563	1	Do. do.	
	Meldr ..	Ithalar	460	1	..	..	460	1	....	Ithalar, Puthuhatti and Sillahalla.
		Devashola	215	½	..	..	215	½	....	Devashola (North and South).
		Balakola	935	1½	..	..	935	1½	....	Thalakad, Kothibenu, Meldr (West), Vuguntbebettu, Maryland.
		Athigarahatti ..	34	..	..	..	34	..	....	
		Sutton shola ..	52	..	..	..	52	..	....	
		Commandu ..	993	1½	..	..	993	1½	....	
		Pembroke	122	..	..	..	122	..	....	
		Hulikal	6,411	10	..	..	6,411	10	....	
		Honnathalai ..	320	½	..	..	320	½	....	
		Rallia	189	½	..	..	189	½	....	Bettumand and Newman.
	Coonoor ..	Blackbridge ..	390	½	..	..	390	½	....	
		Coonoor peak ..	540	½	..	..	540	½	....	Coonoor peak, Bandy shola, Bleakhouse, Springfield and Sim's park.
		Lamb's rock ..	708	1	..	..	708	1	....	
		Tiger hill	328	½	..	..	328	½	....	Tiger hill and Brooklands.
		Ghât reserves ..	311	½	..	..	311	½	....	Town shola, River reserve, Ghât reserve.

Area of Reserved Forests, 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nílgiris —*cont.*	Coonoor—*cont.*	Hillgrove	187	½	..	..	187	½	....	Hillgrove and Benhope.
		Kullar	1,815	3	..	..	1,815	3	.....	Kullar, Aduthore, Burliyar.
	Kótagiri ..	Kótagiri	563	1	..	..	563	1	....	Longwood, Nottshola, Kesalhada, Kunnavara and Karbetta.
	Mudumalai	Benne	10,317	16	724	..	11,041	17	No. 18 of 17th January 1888.	
		Moyar	13,238	21	342	..	13,580	21	No. 123 of 15th March 1887.	
	Sígúr ..	Kalhatti slopes ..	8,983	14	..	..	8,983	14	....	Singara, Kalhatti, Bockepuram.
		Ebanád	571	1	..	..	571	1	....	
	Kundahs.	Kundah	40,521	63	..	..	40,521	63	....	
		Mikkeru	1,267	2	..	..	1,267	2	....	
		Thiashola	1,551	2½	..	..	1,551	2½	....	
		Hiriyashige ..	2,175	3½	..	..	2,175	3½	....	
		Total, Nílgiris ..	120,346	188	8,676	..	129,022	202		
		Ganjam	..	..	5,486	..	5,486	8½	....	
		Godávari	..	..	114	..	114	..	....	
		Kistna	..	..	8,320	..	8,320	13	....	
		Nellore	827	1	23,800	..	24,627	38	....	
		Cuddapah	174,078	272	49,880	..	223,958	350	....	
		Anantapur	8,818	13½	..	..	8,818	13½	....	
		Nílgiris	120,346	188	8,676	..	129,022	202	....	
		Grand Total ..	304,069	474½	96,276	..	400,345	625		

Annual Form No. 59-B.

Forest Department, Madras, Northern Circle.

Area of reserved forests under previous orders for 1887-88.

District	Range.	Name of Forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Godávari ..	Bhádrachallam ..	Pedda Nallapalli	640	1	..	..	640	1	..	
		Arlagudiem	1,920	3	..	..	1,920	3	..	
		Tunikicheruvu	2,560	4	..	..	2,560	4	..	
	Rékapalle	Bundereo	4,160	6½	..	..	4,160	6½	..	
		Erguralpalli	960	1½	..	..	960	1½	..	
		Sarival	3,840	6	..	..	3,840	6	..	
		Rapaka	5,120	8	..	..	5,120	8	..	
		Gamallakota	640	1	..	..	640	1	..	
		Ghandigudiem	1,920	3	..	..	1,920	3	..	
		Marsameddi	7,040	11	..	..	7,040	11	..	
		Sokanapalli	1,920	3	..	..	1,920	3	..	
		Pocharam	12,800	20	..	..	12,800	20	..	
		Total ..	43,520	68	..	..	43,520	68	..	
Kistna ..	Bezwáda	Kondapalli	8,320	13	..	..	8,320	13	..	
	Bápatla	Muthayyapalem	1,070	1½	..	..	1,070	1½	..	
	Palnad	Shrigiripadu	23,680	37½	..	..	23,680	37½	..	
		Motukúr	27,520	43	..	..	27,520	43	..	
		Madhinapadu	6,826	10½	..	..	6,826	10½	..	
	Vinukonda	Bollapalli	32,234	50½	..	..	32,234	50½	..	
		Total ..	99,650	156	..	..	99,650	156	..	
Nellore ..	Gudúr	Sriharikóta	46,402	72½	..	..	46,402	72½	..	
	Nellore, &c.	Nellore	46,862	73	..	..	46,862	73	..	
	Kandukúr	Ramapatam	22,880	36	..	39	22,841	36	..	* Transferred to form 59-A.
	Rapúr, Atmakúr, &c.	Veligondas	23,360	36½	..	..	23,360	36½	..	
		Total ..	139,504	218	..	39	139,465	218	..	
Cuddapah ..	Pullampet	Ballipalle, East	4,484	7	..	..	4,484	7	..	
		Do. West	6,307	10	..	..	6,307	10	..	
		Vagetikona	3,595	5½	..	..	3,595	5½	..	
		Yerraguntlakota	3,487	5½	..	..	3,487	5½	..	

Area of reserved forests under previous orders for 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah—*cont.*	Pullampet	Rallakonda	1,565	2½	..	..	1,565	2½	..	
		Gathala	9,682	15	..	..	9,682	15	..	
		Rolamadugu	5,424	8½	..	..	5,424	8½	..	
		Sallivendra	7,680	12	..	7,680	..	..	..	Transferred to form No. 59-A.
	Cuddapah and Rayachóti.	Guvalacheruvu	14,720	23	..	..	14,720	23	..	
		Wongimalla	21,120	33	..	..	21,120	33	..	
	Rayachóti and Pullampet.	Mudampad	8,960	14	..	..	8,960	14	..	
	Badvél	Nainapalle	15,360	24	..	..	15,360	24	..	
	Proddutúr	Rameswaram	91	..	..	..	91	..	..	
		Thullamapuram	153	¼	..	..	153	¼	..	
		Vellala	258	¼	..	..	258	¼	..	
		Alladapalle	197	½	..	..	197	½	..	
		Paydala	99	..	..	..	99	..	..	
		Neduguvi	696	1	..	..	696	1	..	
		Kothapalli	120	¼	..	..	120	¼	..	
		Kalamalla	430	½	..	..	430	½	..	
		Modumidapalle	86	..	..	..	86	..	..	
		Anantapuram	138	¼	..	..	138	¼	..	
		Vallur	160	½	..	..	160	½	..	
	Jammalamadugu ..	Kondasankesala	858	1	..	..	858	1	..	
		Gandikota	372	½	..	..	372	½	..	
		Kosinipalle	300	½	..	..	300	½	..	
		Yamaveram	200	½	..	..	200	½	..	
		Dhodiem	589	1	..	..	589	1	..	
		Morupandi	756	1	..	..	756	1	..	
		Molamidakamboladinna	787	1	..	..	787	1	..	
		Aravetipalle	200	½	..	..	200	½	..	
		Devepalli	350	½	..	..	350	½	..	
		Pedda Dudiala	300	½	..	..	300	½	..	
	Kadiri	Nigadi	19,000	30	..	..	19,000	30	..	
		Malakavemula	5,500	8½	..	..	5,500	8½	..	
		Kondagamerla	2,700	4	..	..	2,700	4	..	
		Tummala	2,500	4	..	..	2,500	4	..	
		Kokanti	2,000	3	..	..	2,000	3	..	
		Gorivikanama	18,000	28	..	..	18,000	28	..	
	Madanapalle ..	Rekkalakonda	1,200	2	..	..	1,200	2	..	
		Mallayakonda	2,200	3½	..	..	2,200	3½	..	
		Kosuvaripalle	1,400	2	..	..	1,400	2	..	
		Sompalle	800	1½	..	..	800	1½	..	
		Horaleykonda	9,630	15	..	..	9,630	15	..	

Area of reserved forests under previous orders for 1887-88—*cont.*

District.	Range.	Name of Forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah—*cont.*	Váyalpád	Yellutla	3,500	5½	..	2,840	660	1	..	Transferred to form No. 59-A.
		Nadimcherla	2,000	3	..	..	2,000	3	..	
		Váyalpád	3,700	5½	..	..	3,700	5½	..	
		Ankalammakonda	2,800	4	..	..	2,800	4	..	
		Gorantlapalle	4,000	6	..	..	4,000	6	..	
		Total ..	190,454	297	..	10,520	179,934	280½		
Bellary ..	Bellary	Malpangudi	700	1	..	..	700	1	..	
		Total ..	700	1	..	..	700	1	..	
Anantapur ..	Anantapur and Tadpatri.	Muchukota	2,994	5	..	..	2,994	5	..	
		Total ..	2,994	5	..	..	2,994	5	..	
Nílgiris ..	Munanad	Benne	563	1	..	563	..	..	..	Transferred to form No. 59-A.
	Tódanád	Sigúr	25,600	40	..	..	25,600	40	..	
	Paranginád	Coonoor	143	..	..	..	143	..	..	Includes Black bridge, Bleakhouse and Bandy shola plantations.
		Total ..	26,306	41	..	563	25,743	40	..	
		Godávari	43,520	68	..	..	43,520	68	..	
		Kistna	99,650	156	..	..	99,650	156	..	
		Nellore	139,504	218	..	39	139,465	218	..	
		Cuddapah	190,454	297	..	10,520	179,934	280½	..	
		Bellary	700	1	..	..	700	1	..	
		Anantapur	2,994	5	..	..	2,994	5	..	
		Nílgiris	26,306	41	..	563	25,743	40	..	
		Grand Total ..	503,128	786	..	11,122	492,006	768½		

Annual Form No. 59 C.

Forest Department, Madras, Northern Circle.

Area of reserved lands for 1887-88.

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Ganjam ..	Bodo Borosinghi ..	Kaliamba	5,200	8	..	..	5,200	8		
		Teleki	15,200	24	..	..	15,200	24		
		Baibali	21,920	34	..	..	21,920	34		
		Venjagiri	6,000	9	..	..	6,000	9		
		Malati	1,720	3	..	..	1,720	3		
		Rogoda	16,000	25	..	..	16,000	25		
	Chokapad	Darpangia	16,160	25	..	..	16,160	25		
		Rambha	9,300	15	..	..	9,300	15		
		Gullery	23,860	37	..	..	23,860	37		Transferred to form No. 59 A.
		Koolada	2,760	4	..	..	2,760	4		
		Dimrijoli	5,486	8½	..	5,486	..	..		
	Gayagonda ..	Ambazara	32,000	50	..	..	32,000	50		
		Chodiapalli	960	2	..	..	960	2		
		Chondorgiri	18,320	29	..	..	18,320	29		
		Gunduribadi	12,200	19	..	..	12,200	19		
		Gogoda	15,240	24	..	..	15,240	24	Notification No. 199 of 13th Oct. 1884.	
	Jaggannadhaprasad.	Paichalia	13,760	22	..	..	13,760	22	Bd.'s Procs., No. $\frac{3688}{F.\ 360}$ of 29th Oct. 1884.	
		Brahmanosai	8,080	13	..	..	8,080	13		
		Jagannathprasad	26,200	41	..	..	26,200	41		
	Buguda	Panchbuthi	10,000	16	..	..	10,000	16		
		Kurcholi	10,400	16	..	..	10,400	16		
		Kriyambi	28,280	44	..	..	28,280	44		
		Sandusalya	2,000	3	..	..	2,000	3		
		Bodochendana	800	1	..	..	800	1		
		Vishnuchakram	4,860	8	..	..	4,860	8		
	Pondokoi	Bondagocha	4,400	7	..	..	4,400	7		
		Dhougam	2,400	4	..	..	2,400	4		
		Pipalaponka	7,700	12	..	..	7,700	12		
		Mundapitta	6,880	11	..	..	6,880	11		
		Hukuma	4,160	7	..	..	4,160	7		
		Raipada	6,700	11	..	..	6,700	11		
	Berhampore	Ramogoda	1,425	2	..	..	1,425	2	Notification No. 311 of 2nd Nov. 1885.	
		Bainamari	1,375	2	..	..	1,375	2	Bd.'s Procs., No. $\frac{3129}{F.\ 623}$ of 16th Nov. 1885.	
		South Mohiri	2,600	4	..	..	2,600	4	Fuel and fodder reserves.	
		Bollibogada	261	1	..	..	261	1	Bd.'s Procs., F. No. 285 of 20th May 1887.	

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Ganjam—*cont.*	Berhampore—*cont.*	Balakrishnapuram	164	..	..	..	164	..	Fuel and Fodder Reserves. Bd.'s Procs., No. F. 265 of 20th May 1887.	
		Chatrapur	695	1	..	..	695	1		
		Dura	279		..	..	279			
		Golabondo	379	1	..	..	379	1		
		Podhara	760	1	..	..	760	1		
		Mushidipalem	238	..	..	..	238	..		
		Kusimi	625	1	..	..	625	1		
		Bendaliya	163	..	..	..	163	..		
		Mohoda	419	1	..	..	419	1		
		Mushiyakalli	522	1	..	..	522	1		
		Ankusopuram	138	..	..	..	138	..		
		Mohughora	1,697	2	..	..	1,697	2		
		Maharlapalli	924	2	..	..	924	2		
		Virakrishnachandrapuram	445	1	..	..	445	1		
		Godo hill	225	..	..	..	225	..		
		Jorono hill	1,002	2	..	..	1,002	2		
		West Batukamarada	179	..	..	..	179	..		
		Nimmapuram	697	1	..	..	697	1		
		Sikharapuram	260	1	..	..	260	1		
		Shapuram	142	..	..	..	142	..		
		Total	354,560	556½	..	5,486	349,074	548		
Vizagapatam	Sarvasiddhi	Peddapalli	..	..	5,000	..	5,000	8	Notification No. 342 of 14th Nov. 1885. Bd.'s Procs., No. 3422/F. 692 of 19th Dec. 1885.	
		Total	..	..	5,000	..	5,000	8		
Godávari	Peddapur	Raguvapatnam	12,160	19	..	..	12,160	19	Notification No. 448 of 23rd Nov. 1886. Bd.'s Procs., F. No. 681 of 17th Dec. 1886.	
		Sullanka	17,920	28	..	..	17,920	28		
		Anantavaram	8,320	13	..	..	8,320	13		
		Tótapalle	3,520	5	..	..	3,520	5		
		Óligogola	20,800	32	..	..	20,800	32		
		Ramasaram	..	..	2,500	..	2,500	4	Notification No. 213 of 23rd May 1887. Bd.'s Procs.,	
	Rajahmundry	Devancheru	5,000	8	..	..	5,000	8	Notification No. 308 of 26th July 1886. Bd.'s Procs., F. No. 441 of 21st Aug. 1886.	
	Bhadráchalam	Malkanapalle	5,300	8	..	..	5,300	8	Notification No. 18 of 19th Dec. 1885. Bd.'s Procs., No. 166/F. 27 of 21st Jan. 1886.	Abandoned. G.O., No. 739 of 29th July 1887.
		Chintagura	2,500	4	..	2,500	..	..		
		Dumagudiem	9,200	15	..	..	9,200	15		
		Arlaguram	7,000	11	..	..	7,000	11		
		Tunkicheruvu	13,800	22	..	..	13,800	22		
		Bhadráchalam	12,700	20	..	..	12,700	20		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Godávari—*cont.*	Bhadráchalam—*cont.*	Gogubaka	2,000	3	..	..	2,000	3		
		Komanpalle	4,400	7	..	..	4,400	7		
		Randreo	10,900	17	..	..	10,900	17		
		Golagupa	8,500	13	..	..	8,500	13		
		Narakonda	7,500	12	..	..	7,500	12		
		Pengha	4,600	7	..	..	4,600	7		
		Upanapalle	3,300	5	..	..	3,300	5		
		Tatlunka	12,600	20	..	..	12,600	20		
		Ramchandrum	10,300	16	..	..	10,300	16		
		Rapak	8,000	12	..	..	8,000	12		
		Sitarampuram	3,000	5	..	..	3,000	5	Notification No. 18 of 19th Dec. 1885.	
		Bhandargariam	7,100	11	..	..	7,100	11	Bd.'s Procs., No. $\frac{166}{F.\ 27}$ of 21st January 1886.	
		Burkankota	1,500	2	..	..	1,500	2		
		Kaler	6,500	10	..	..	6,500	10		
		Nialakota	2,700	4	..	..	2,700	4		
		Lakewaram	7,200	11	..	..	7,200	11		
		Kanslur	7,000	11	..	..	7,000	11		
		Mitapalle	13,000	20	..	..	13,000	20		
		Pulsmamri	6,800	11	..	..	6,800	11		
		Walsugri	8,700	14	..	..	8,700	14		
		Rékapalle hills	107,700	168	..	..	107,700	168		
		Márigura	45,500	71	..	..	45,500	71		
	Ellore	Velagalapalle	..	..	2,560	..	2,560	4		
		Chintalapudi	..	..	2,560	..	2,560	4		
		Barrikonda	..	..	3,840	..	3,840	6		
		Erraguntapalle	..	..	9,600	..	9,600	15	Notification No 210 of 23rd May 1887.	
		Bandamcherla	..	..	6,400	..	6,400	10	Bd.'s Procs , F. No. 347 of 18th June 1887.	
		Tadikalapudi	..	..	2,560	..	2,560	4		
		Ramasingavaram	..	..	1,920	..	1,920	3		
	Delta	Coringa	6,720	10½	..	..	6,720	10½	Notification No. 385 of 2nd November 1886. Bd 's Procs., F. No. 607 of 6th Nov. 1886.	
		Narsápur	114	..	..	*114	..	..	Notification No. 416 of 10th Nov. 1886. Bd.'s Procs., F. No. 648 of 29th Nov. 1886.	* Transferred to Form No. 59 A.
		Upputer	..	..	10,000	..	10,000	15½	Notification No. 291 of 29th July 1887. Bd.'s Procs., F. No. 494 of 26th Aug. 1887.	
		Bendamurlunka	371½	1	..	..	371	1	Notification No. 416 of 10th Nov. 1886. Bd.'s Procs., F. No. 648 of 29th Nov. 1886.	
		Total ..	414,225	646½	41,940	2,614	453,551	708		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Kistna ..	Bezváda	Kondapalle	33,722	52½	1,500	..	35,222	54½		
		Kottúr	7,593	12	..	..	7,593	12		
		Bezváda	1,216	2	..	256	960	1½	Notification No. 143 of 30th July 1884.	
		Gunadalá	1,107	2	..	527	580	1	Bd.'s Procs., No. 2783/F. 236 of 11th Aug. 1884.	
		Budavada	7,740	12	..	2,620	5,120	8		
		Jaggayapeta	9,658	15	..	..	9,658	15		
		Gavaravaram	80	..	..	..	80	..	Notification No. 38, of 26th January 1885.	
		Ibrampatnam	24	..	..	..	24	..	Bd.'s Procs., No. 419/F. 56 of 6th Feb. 1885.	
		Kondur	..	..	3,000	..	3,000	5	Notification No. 351 of 11th October 1887. Bd.'s Procs., F. 626 of 5th November 1887.	
	Guntúr	Kondavid	15,114	24	..	..	15,114	24		
		Tadepalle	2,800	4	..	..	2,800	4		
		Kuragallu	1,069	2	..	..	1,069	2		
		Nidamarru	581	1	..	..	581	1		
		Narakodur	811	1	..	..	811	1		
		Karlapudi	913	1	..	354	559	1		
	Krósúr	Venkatayapalem	46,201	72	..	..	46,201	72		
		Bellamkonda	1,990	3	..	315	1,675	2½	Notification No. 143 of 30th July 1884.	
		Nevalipuri	11,870	19	..	..	11,870	19		
		Konanki	4,602	7	..	1,002	3,600	5½	Bd.'s Procs., No. 2783/F. 236 of 11th Aug. 1884.	
	Vinukonda	Bollapalli	37,712	59	..	..	37,712	59		
		Guttikonda	42,241	66	..	..	42,241	66		
		Kakerali	28,864	45	..	..	28,864	45		
	Palnad	Madinapadu	9,960	16	..	360	9,600	15		
		Pasuvemula	22,782	36	..	..	22,782	36		
		Kellagunta	34,947	55	..	..	34,947	55		
		Gungalaguata	24,514	38	..	..	24,514	38		
		Mutkur	31,408	49	..	..	31,408	49		
		Tumerikodu	23	..	..	..	23	..	Notification No. 38 of 26th January 1885. Bd.'s Procs., No. 419/F. 86 of 6th Feb. 1885.	
		Muthayapalem	9,842	15	..	..	9,842	15	Notification No. 143 of 30th July 1884. Bd.'s Procs., No. 2783/F. 236 of 11th Aug. 1884.	
	Bápatla	Pandhillapalle	164				164			
		Wardaravu	70				70			
		Anumillipeta	26				26		Notification No. 38 of 26th January 1885.	
		Nayani palli	156	1	..	..	156	1	Bd.'s Procs., No. 419/F. 86 of 6th Feb. 1885.	
		Chirala	15				15			
		Bapatla No. I	274				274			
		Do. ,, II	..	..	840	..	840	1	Notification No. 350 of 11th October 1887. Bd.'s Procs., F. No. 626 of 5th Nov. 1887.	

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Kistna—*cont.*	Bapatla—*cont.*	Karlapalem, No. I	107	1	..	..	107	..	Notification No. 38 of 26th Jan. 1885.	
		Do. ,, II	268				268	1	Bd.'s Procs., No. 419/F. 86 of 6th Feb. 1885.	
		Vedhullapalle	166				166	..		
		Kothapalem, No. I	3,840	6	..	* 3,840	..	..	Transferred to Form No. 59 A.	
		Do. ,, II	..	..	3,100	..	3,100	5	Notification No. 350 of 11th Oct. 1887. Bd.'s Procs., F. No. 626 of 5th Nov. 1887.	
		Lankavanidibba	4,480	7	..	* 4,480	..	..	Transferred to Form No. 59 A.	
		Adavuladivi	..	..	610	..	610	1	Notification No. 350 of 11th Oct. 1887.	
		Dindi	..	..	1,000	..	1,000	2	Bd.'s Procs., F. No. 626 of 5th Nov. 1887.	
		Yellichetfidibba	7,680	12	..	..	7,680	12	Notification No. 91 of 8th Feb. 1887.	
		Nachugunta	11,520	18	..	..	11,520	18	Bd.'s Procs., F. No. 74 of 10th Feb. 1887.	
		Sorlagundi	10,240	16	..	..	10,240	16		
	Bandar	Gollapalem	200	½	..	..	200	½	Notification No. 38 of 26th Jan. 1885.	
		Kodur	38		..	..	38		Bd.'s Procs., No. 419/F. 86 of 6th Feb. 1885.	
		Palakayatippa	4,480	7	..	..	4,480	7	Notification No. 91 of 8th Feb. 1887.	
		Bandar Fort	8,000	12½	..	..	8,000	12½	Bd.'s Procs., F. No. 74 of 10th Feb. 1887.	
		Kara	20	..	..	..	20	..	Notification No. 38 of 26th Jan. 1885. Bd.'s Procs, No. 419/F. 86 of 6th Feb. 1885.	
		Lakshmipuram	560	1	..	..	560	1	Notification No. 91 of 8th Feb. 1887. Bd.'s Procs., F. No. 74 of 10th Feb. 1887.	
		Bomminampadu	26	..	..	..	26	..		
		Vanudhuru	64	..	..	..	64	..		
		Vemavarampadu	16	..	..	..	16	..		
		Allinagaram	125	..	..	..	125	..	Notification No 38 of 26th Jan. 1885.	
		Kanukollu	600	1	..	..	600	1	Bd.'s Procs., No. 419/F. 86 of 6th Feb. 1885.	
		Mandavalle	20	..	..	20*	..	..	* Sold Bd.'s Procs., F. 19 of 12th Jan. 1888.	
		Rudravaram	20	..	..	20*				
		Karlapadu	20	..	..	20*				
		Total	442,579	691½	10,050	13,814	438,815	686		
Nellore	Kávali	Kávali	2,933	5	..	..	2,933	5	Bd.'s Procs., No. 3216/F. 647 of 24th Nov. 1885.	
		Do.	1,610	2½	..	..	1,610	2½		
		Rudrakota	1,800	3	..	..	1,800	3		
		Maddurpad	1,000	2	..	..	1,000	2	Notification No. 97 of 15th Feb. 1887.	
		Narayanapuram	1,600	3	..	..	1,600	3	Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Zammalapalem	1,280	2	..	..	1,280	2		

* Transferred to Form No. 59 A.

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Name of forests.	Area on 1st April 1888.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nellore—*cont.*	Kávali—*cont.*	Zaladanki (East and West)	900	1½	..	..	900	1½		
		Gattupalle	960	1½	..	..	960	1½		
		Kesavaram	1,800	3	..	..	1,800	3		
		China Annatur	2,000	3	..	..	2,000	3		
		Tummalapenta (North, South and West).	4,240	7	..	..	4,240	7		
		Gollapalem	960	1½	..	..	960	1½	Notification No. 97 of 15th Feb. 1887.	
		Talapalem	960	1½	..	..	960	1½	Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Bitragunta	3,400	5	..	..	3,400	5		
		Nagalavaram	960	1½	..	..	960	1½		
		Zakkalapalle, Gúdúr	800	1	..	..	800	1		
		Chamadala	850	1½	..	..	850	1½		
		Manubolpad	1,120	2	..	..	1,120	2		
		Dundigam	500	1	..	..	500	1		
		Dharmavaram	200	½	..	..	200	½		
		Mungamore	..	..	5,000	..	5,000	7	Bd.'s Procs., F. No. 371 of 1st July 1887.	
		Kadanutla								
		Talapolliem								
		Kávali								
		Kolladinna								
		Musunur								
		Anamadugu								
		Chennayyapolliem								
		Tummalapenta								
		Rudrakóta								
	Udayagiri	Udayagiri Durgam	7,000	11	..	..	7,000	11	Notification No. 185 of 13th Oct. 1883. Bd.'s Procs., No. 3222 of 26th Oct. 1883.	
		Yerrakondas	2,500	4	..	..	2,500	4	Notification No. 238 of 22nd Aug. 1885. Bd.'s Procs., No. 2601/F. 496 of 9th Sep. 1885.	
		Udayagiri, East, and Aappsamudrum.	..	..	1,000	..	1,000	2	Notification No. 243 of 1st July 1887. Bd.'s Procs., F. No. 413 of 22nd July 1887.	
	Ongole	Chimakurthi	7,500	12	..	..	7,500	12	Notification No. 185 of 13th Oct. 1883. Bd.'s Procs., No. 3222 of 26th Oct. 1883.	
		Ongole	200	..	..	..	200	..	Notification No. 205 of 23rd Nov. 1883. Bd.'s Procs., 3781 of 14th Dec. 1883.	
	Gúdúr	Sríharikót and its outliers.	35,710	56	..	..	35,710	56	Notification No. 185 of 13th Oct. 1883. Bd.'s Procs., No. 3222 of 26th Oct. 1883.	
		Dugarázpatnam plantation	23,800	37	..	23,800	..	..	Transferred to Form No. 59-A.	
		Kottapatam plantation	385	1	..	..	385	1	Notification No. 205 of 23rd Nov. 1883. Bd.'s Procs., No. 3781 of 14th Dec 1883.	
		Tamminapatnam do.	485	1	..	..	485	1		
		Yellasari	2,080	3	..	..	2,080	3		
		Vellipad	720	1	..	..	720	1		
		Ipuru	450	1	..	..	450	1	Notification No. 98 of 15th Feb. 1887. Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Tamarapatam (West)	800	1	..	..	800	1		
		Momidi	2,040	3	..	..	2,040	3		
		Ankulapatur	310	½	..	..	310	½		
		Pidatalapudi	800	1	..	..	800	1		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nellore—*cont.*	Gúdúr—*cont.* ..	Kadived (North and South).	880	1	..	..	880	1		
		Vodúr	720	1	..	..	720	1		
		Nellaballi	320	½	..	..	320	½		
		Chillakúr	480	½	..	..	480	½		
		Gudúr	2,400	4	..	..	2,400	4		
		Vendodu	700	1	..	..	700	1		
		Vedicherla	700	1	..	..	700	1	Notification No. 98 of 15th Feb. 1887.	
		Vendúr	300	½	..	..	300	½	Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Madamanúr	400	½	..	..	400	½		
		Idagali	480	1	..	..	480	1		
		Sarvepalle	2,880	4½	..	..	2,880	4½		
		Kanupur (East and West)..	3,200	5	..	..	3,200	5		
		Cherukumudi	640	1	..	..	640	1		
		Kottapatam	2,500	4	..	..	2,500	4		
		Utukúr Varni plantations..	472	½	..	..	472	½	Notification No. 205 of 23rd Nov. 1883. Bd.'s Procs., No. 3781 of 14th Dec. 1883.	
		Iskápalle	24	..	..	..	24	..		
	Nellore	Marripad	1,760	3	..	..	1,760	3		
		Turimerla	640	1	..	..	640	1		
		Dagadarti	3,200	5	..	..	3,200	5		
		Kottapalle	4,480	7	..	..	4,480	7		
		Vavveru	4,160	6½	..	..	4,160	6½		
		Amancherla (East and West)	1,440	2	..	..	1,440	2	Notification No. 99 of 15th Feb. 1887.	
		Dontali	1,280	2	..	..	1,280	2	Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Chemudugunta	320	½	..	..	320	½		
		Kakutúr	480	½	..	..	480	½		
		Nellore	2,560	4	..	..	2,560	4		
		Kondlapudi	1,440	2	..	..	1,440	2		
		Kandamúr	1,520	2½	..	..	1,520	2½		
		South Mopur	1,000	1½	..	..	1,000	1½		
		Allipuram	..	..	200	..	200	..	Notification No. 250 of 1st July 1887. Bd.'s Procs., F. No. 413 of 2nd July 1887.	
	Kanigiri	Kanigiri	1,500	2	..	..	1,500	2	Notification No. 205 of 23rd Nov. 1883. Bd.'s Procs., No. 3781 of 14th Dec. 1883.	
		Nandavanam	17,000	27	..	..	17,000	27	Notification No. 190 of 6th July 1885.	
		Vedullacheruvu	8,000	13	..	..	8,000	13	Bd.'s Procs., No. $\frac{2169}{\text{F. 411}}$ of 22nd July 1885.	
	Kandukúr	Chagollu	1,150	2	..	..	1,150	2		
		Buddapudi	640	1	..	..	640	1	Notification No. 96 of 15th Feb. 1887. Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Chakicherla	320	½	..	..	320	½		
		Ramapatam	1,280	2	..	..	1,280	2		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nellore—*cont.*	Kandukúr—*cont.*	Ravúr	1,520	2	..	..	1,520	2	Notification No. 96 of 15th Feb. 1887. Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Mocharla, Chalamcherla	12,290	19	..	..	12,290	19		
		China Laterapi	1,000	1½	..	..	1,000	1½		
		Gudlúr	2,800	4½	..	..	2,800	4½		
	Rápúr	Turupupundla	960	1½	..	..	960	1½		
		Sydapuram	2,080	3	..	..	2,080	3		
		Chaganam	2,720	4	..	..	2,720	4		
		Vutukur	640	1	..	..	640	1		
		Turimerla	640	1	..	..	640	1		
		Tummalatalpur	3,680	6	..	..	3,680	6		
		Marlapudi	4,480	7	..	..	4,480	7		
		Potegunta	1,600	2½	..	..	1,600	2½		
		Paluru	400	1	..	..	400	1		
		Chikavolu	1,120	2	..	..	1,120	2		
		Cherlopalle	3,360	5	..	..	3,360	5		
		Potukonda	2,240	3½	..	..	2,240	3½		
		Guttikonda	160	..	..	..	160	..		
		Marellakonda	520	1	..	..	520	1		
		Venimabhi	2,080	3	..	..	2,080	3	Notification No. 100 of 15th Feb. 1887. Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Nellapalle	1,840	3	..	..	1,840	3		
		Kakulakonda	3,680	6	..	..	3,680	6		
		Yerragondas	17,000	26½	..	..	17,000	26½		
		Vavintaparti	1,280	2	..	..	1,280	2		
		Kummaragunta	480	1	..	..	480	1		
		Pulikollu	640	1	..	..	640	1		
		Magallur	720	1	..	..	720	1		
		Duggunta	960	1½	..	..	960	1½		
		Podalakur	1,920	3	..	..	1,920	3		
		Birdavolu	2,400	4	..	..	2,400	4		
		Vadlapudi	2,400	4	..	..	2,400	4		
		Marupúr	3,680	6	..	..	3,680	6		
		Toderu	800	1	..	..	800	1		
		Nernúr	2,400	4	..	..	2,400	4		
		Chittaluru	480	1	..	..	480	1		
		Ayyagaripalem	320	½	..	..	320	½		
		Griddalúr	..	..	500	..	500	1	Notification No. 506 of 5th July 1887. Bd.'s Procs., F. No. 413 of 22nd July 1887.	
	Atmakúr	Telugurayapuram	800	1	..	..	800	1	Notification No. 101 of 15th Feb. 1887. Bd.'s Procs., F. No. 90 of 15th Feb. 1887.	
		Turupkambhampadu	960	1½	..	..	960	1½		
		Chegerla	1,120	2	..	..	1,120	2		
		Shrikolanu	1,040	2	..	..	1,040	2		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Nellore—*cont.*	Rápúr and Atmakúr ..	Rápúr Veligondas	27,000	42	..	..	27,000	42	Notification No. 164 of 10th June 1885.	
	Atmakúr and Udayagiri.	Udayagiri Veligondas ..	23,000	36	..	..	23,000	36	Bd.'s Procs., No. 1951/F. 365 of 2nd July 1885.	
	Atmakúr and Nellore..	Bommavaram	..	..	1,500	..	1,500	2	Notification No. 247 of 1st July 1887.	
		Prabhagirıpatnam	..	..	1,000	..	1,000	2	Bd.'s Procs., F. No. 413 of 22nd July 1887.	
		Total ..	325,129	511	9,200	23,800	310,529	488		
Cuddapah..	Kodúr	Reddipalle plantation ..	516	1	..	* 516	..	..		
		Kodúr	2,160	3½	..	..	2,160	3½		
		Settigunta	960	1½	..	..	960	1½	Collector's notice, dated 7th March 1885.	
		Yerraguntlakota	6,400	10	..	..	6,400	10		
	Kodúr and Rájampet.	Salivendra	19,200	30	..	† 12,800	..	..		
		Chitvel	10,240	16	..	* 6,400	10,240	16	Do. do. ,, 6th ,, 1884.	
	Rájampet	Vattalur hill	320	½	..	* 320	..	..		
		Ananthasamudram ..	10,240	16	..	..	10,240	16	Collector's notice, dated 7th March 1885.	
		Sonipava ghât	3,200	5	..	..	3,200	5		
	Kodúr, Rájampet, Rayachóti and Váyalpád.	Seshachellam and Rollamadugu.	3,840	6	..	..	3,840	6	Do. do. ,, 6th ,, 1884.	
	Rájampet and Rayachóti.	Gadikóta	3,538	6	..	..	3,538	6		
	Cuddapah, Rayachóti and Sidhout.	Pálkonda	81,920	128	..	..	81,920	128	Notification of 11th June 1883.	
	Cuddapah, Rayachóti and Pulivendla.	Idupalapaya	28,160	44	..	..	28,160	44	Bd.'s Procs., No. 1864 of 26th June 1883.	
	Badvél	Kavalakuntla	11,520	18	..	† 9,920	1,600	2½		
		Ganugapenta	17,280	27	..	† 14,080	..	..	Notification No. 54 of 14th March 1884.	
		Gopavaram	13,440	21	..	* 3,200	13,440	21	Bd.'s Procs., No. 1169/F. 60 of 31st March 1884.	
		Kottakota	38,400	60	..	..	38,400	60		
		Kalasapad	6,400	10	..	..	6,400	10	Notification No. 306 of 24th July 1886.	
		Sancherla	5,760	9	..	..	5,760	9	Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
		Tsallagirigulla	1,280	2	..	..	1,280	2		
	Badvél and Sidhout..	Badvél	1,920	3	..	..	1,920	3	Collector's notice, dated 17th March 1885.	
		Ramapuram	7,680	12	..	..	7,680	12		
	Sidhout	Malliamkonda	14,080	22	..	† 10,240	..	..		
		Do. addition ..	1,280	2	..	* 3,840	1,280	2	Notification No. 306 of 24th July 1886. Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	

* Rectification of area at settlement. † Transferred to Form No. 59 A.

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah *cont.*—	Sidhout— *cont.* ..	Konarazpalle	9,600	15	..	..	9,600	15	Notification No. 54 of 14th March 1884. Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Vontimitta	5,760	9	..	5,760	..	..	Abandoned.	
		Turupukonda	30,080	47	..	..	30,080	47	Notification No. 306 of 24th July 1886. Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
		Ippakanama	1,600	2½	..	..	1,600	2½	Collector's notice of 7th March 1885.	
	Sidhout and Rájampet.	Kanakalakonda	6,400	10	..	..	6,400	10		
		Patur	7,680	12	..	..	7,680	12		
	Sidhout and Cuddapah.	Kanamalapalle	5,255	8	..	..	5,255	8		
	Sidhout, Cuddaph and Badvél.	Lankamala	112,640	176	..	..	112,640	176	Notification, No. 54 of 14th Mar. 1884.	
	Badvél and Proddutur.	Dasaripalle	66,560	104	..	..	66,560	104	Bd's Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Kanchalamoram	8,960	14	..	..	8,960	14		
	Ráyachóti ..	Sibyala	340	½	..	* 340	..	..		
		Tsundapalle	1,480	2½	..	* 1,480	..	..		
		Madhavaram	5,120	8	..	..	5,120	8		
		Vandadi hills	3,200	5	..	..	3,200	5		
		Brahmana Yerragudi ..	7,680	12	..	..	7,680	12	Collector's notice of 7th Mar. 1885.	
		Hassanapuram	23,040	36	..	..	23,040	36		
		Mudampad slopes	5,760	9	..	..	5,760	9	Notification No. 306 of 24th July 1886.	
		Wongimalla	10,880	17	..	..	10,880	17	Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
	Ráyachóti and Váyalpád.	Urukonda	8,960	14	..	..	8,960	14		
	Ráyachóti, and Váyalpád Madanapalle.	Rekkalakonda	6,400	10	..	..	6,400	10		
	Váyalpád	Yellutla	7,680	12	..	† 2,840	4,840	7½	Notification No. 54 of 14th March 1884. Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Gajbujikona	320	½	..	..	320	½		
		Yerramoralajedu	3,680	5½	..	..	3,680	5½		
		Ankalammakonda	2,800	4	..	..	2,800	4		
		Nurukupalakonda	3,700	5½	..	..	3,700	5½		
		Doddipalle	2,560	4	..	..	2,560	4		
		Sorakayalapet	2,560	4	..	..	2,560	4		
		Peddamallela	3,200	5	..	..	3,200	5	Notification No. 306 of 24th July 1886. Bd's. Procs., F. No. 461 of 30th Aug. 1886.	
		Marella	7,680	12	..	..	7,680	12		
		Talakona	19,840	31	..	..	19,840	31		
		Bhakarapet	9,800	15	..	..	9,800	15		

* Rectification of area at statement.

† Transferred to Form No. 59 A.

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah —*cont.*	Váyalpád and Madanapalle.	Tarigonda	6,400	10	..	..	6,400	10		
		Nurukupalakonda extension	5,120	8	..	..	5,120	8		
		Gutapoliem	2,560	4	..	..	2,560	4	Notification No. 54 of 14th Mar. 1884.	
	Madanapalle ..	Tavalam	5,120	8	..	..	5,120	8	Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Mahdanikonda	1,920	3	..	..	1,920	3		
		Pentzupad	1,920	3	..	..	1,920	3		
		Avalakonda	4,480	7	..	..	4,480	7	Notification No. 305 of 24th July 1886.	
		Do. extension ..	3,840	6	..	..	3,840	6	Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
		Mudimadagu	1,920	3	..	..	1,920	3	Notification No. 54 of 14th Mar. 1884.	
		Horsleykonda	9,630	15	..	..	9,630	15	Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Modugamala	2,560	4	..	..	2,560	4		
		Malliakonda	2,200	3½	..	..	2,200	3½	Notification No. 305 of 24th July 1886.	
		Malliakonda extension ..	640	1	..	..	640	1	Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
		Nallakonda, Kotamakonda and Errakasikonda.	3,840	6	..	..	3,840	6		
		Yeddalavaripalle	3,840	6	..	..	3,840	6		
		Pulikonda	2,560	4	..	..	2,560	4		
		Potapolu	640	1	..	..	640	1		
		Mudimadugu and Horsleykonda extension.	3,200	5	..	..	3,200	5		
		Kukarazupalle	2,560	4	..	..	2,560	4	Notification No. 54 of 14th Mar. 1884.	
		Ishwaramala	15,360	24	..	..	15,360	24	Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Kokanti	2,000	3	..	..	2,000	3		
		Kadiri	10,240	16	..	..	10,240	16		
		Vellichelamala	2,560	4	..	..	2,560	4	Notification No. 305 of 24th July 1886.	
		Do. extension ..	640	1	..	..	640	1	Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
		Therumaladevarakonda ..	9,600	15	..	..	9,600	15	Notification No. 54 of 14th Mar. 1884.	
		Nigadi	19,000	30	..	..	19,000	30	Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
	Kadiri	Do. extension	640	1	..	..	640	1	Notification No. 305 of 24th July 1886.	
									Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
		Kukkarazukonda	5,120	8	..	..	5,120	8	Notification No. 54 of 14th Mar. 1884.	
		Tummala	25,600	40	..	..	25,600	40	Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Malakavemula	1,920	3	..	..	1,920	3		
		Tummalamala	6,400	10	..	..	6,400	10		
		Kondakomerla	3,200	5	..	..	3,200	5		
		Somarazumala (East) ..	1,280	2	..	..	1,280	2	Notification No. 305 of 24th July 1886.	
		Goduvelagala	1,920	3	..	..	1,920	3	Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
		Mudupalajuvi	1,440	2	..	..	1,440	2		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Cuddapah —*cont.*	Kadiri and Pulivendla.	Gorivikanama	28,800	45	..	..	28,800	45	Notification No. 54 of 14th Mar. 1884. Bd.'s Procs., No. 1169/F. 60 of 31st Mar. 1884.	
		Dorigulla	30,720	48	..	..	30,720	48		
	Cuddapah and Pulivendla.	Ganganapalle	57,600	90	..	..	57,600	90	Collector's notice of 3rd Mar. 1885.	
		Chelakampalle	9,600	15	..	..	9,600	15		
	Proddutur and Jammalamadugu.	Kondasankesula	4,480	7	..	..	4,480	7		
		Dubbudapalle	3,280	5	..	..	3,280	5		
		Dhodyem	2,720	4	..	..	2,720	4		
		Malaimdikambaladinne ..	3,440	5	..	..	3,440	5		
		Penner	640	1	..	..	640	1		
		Gandikota	9,920	15½	..	..	9,920	15½		
		Yamavaram	1,600	2½	..	..	1,600	2½		
		Kosinepalle	7,040	11	..	..	7,040	11		
		Nidiguvvi	2,880	4½	..	..	2,880	4½		
		Kondapuram	3,840	6	..	..	3,840	6		
	Jammalamadugu and Pulivendla.	Bhanukotamala	13,600	20	..	..	13,600	20		
	Jammalamadugu, Pulivendla and Cuddapah.	Mallela	5,120	8	..	..	5,120	8		
	Cuddapah	Kommaddi	1,600	2½	..	..	1,600	2½		
		Animela	1,920	3	..	1,920	..	..	Notification No. 304 of 24th July 1886.	Abandoned.
		Tummalur	3,200	5	..	..	3,200	5	Bd.'s Procs., F. No. 461 of 30th Aug. 1886.	
		Gonamakalapalle	1,280	2	..	..	1,280	2		
	Sidhout and Pullampet.	Kokaletikanama	14,420	22½	..	..	14,420	22½		
		Kothur	22,720	35½	..	..	22,720	35½		
	Pullampet	Gotimanikana	3,840	6	..	..	3,840	6		
		Badugantapalle	3,520	5½	..	..	3,520	5½		
		Cheyavaram	4,480	7	..	..	4,480	7		
		Avalapenta	960	1½	..	..	960	1½		
		Mushtiyeru	4,480	7	..	..	4,480	7		
		Kodivengamabhavi	2,400	4	..	..	2,400	4		
		Marriutla	6,400	10	..	..	6,400	10		
		Tippayapalle	960	2	..	..	960	2		
	Sidhout, Pullampet and Rayachóti.	Cheyer	11,360	18	..	..	11,360	18		
	Pullampet and Rayachóti.	Yerrakonda	8,320	13	..	..	8,320	13		
	Rayachóti and Cuddapah.	Reddlacheruvu	5,120	8	..	..	5,120	8		
		Total ..	1,135,079	1,772	..	73,656	1,061,423	1,658½		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Kurnool ..	Sirvel and Nandyál ..	Sirvel	128,000	200	..	..	128,000	200	Notification of 21st Apr. 1883. Bd.'s Procs., No. 1305 of 10th May 1883.	
	Nandyál and Nandikótkur.	Nandyál	192,000	300	..	..	192,000	300		
	Nandikótkur	Nandikótkur	256,000	400	..	..	256,000	400		
	Cumbum	Uyyalavada	448,000	700	..	..	448,000	700	Notification No. 198 of 17th Nov. 1883. Bd.'s Procs., No. 3729 of 10th Dec. 1883.	
	Cumbum and Márkápur	Cumbum								
	Márkapár	Márkápur								
	Cumbum ..	Northern Veligondas ..	19,200	30	..	..	19,200	30	Notification No. 199 of 17th Nov. 1883. Bd.'s Procs., No. 3729 of 10th Dec. 1883.	
		Southern do. ..	19,200	30	..	..	19,200	30		
		Western do. ..	10,880	17	..	..	10,880	17		
	Yerramalais	Ramallakota (East)	..	..	2,000	..	2,000	3	Notification No. 74 of 6th Mar. 1888. Bd.'s Procs., F. No. 154 of 28th Mar. 1888.	
		Ramallakota (West) ..	..	..	2,000	..	2,000	3		
		Lanjabunda	..	..	2,000	..	2,000	3		
		Yepalpaud	..	..	3,500	..	3,500	5½		
		South Dhone	..	..	4,000	..	4,000	6		
		North do.	..	..	10,000	..	10,000	16		
		Gadithemadugu	..	..	3,000	..	3,000	5		
		Total ..	1,073,280	1,677	26,500	..	1,099,780	1,718½		
Bellary ..	Kúdligi and Hospet.	Bandri	7,000	11	..	..	7,000	11	Notification No. 197 of 16th Nov. 1883. Bd.'s Procs., No. 3685 of 6th Dec. 1883.	
	Hospet	Gound	3,000	4¾	..	..	3,000	4¾		
		Hospet	5,000	8	..	..	5,000	8		
		Jog	4,000	6¼	..	..	4,000	6¼		
		Oblagudi	1,000	1½	..	..	1,000	1½		
		Tornagal	2,100	3¼	..	..	2,100	3¼	Notification No. 102 of 17th May 1884. Bd.'s Procs., No. 1849 / F. 129 of 2nd June 1884.	
	Bellary	Bellary	8,000	12½	..	..	8,000	12½	Notification No. 51 of 12th Mar. 1884. Bd.'s Procs., No. 1167 / F. 58 of 31st Mar. 1884.	
		Mincheri	4,000	6¼	..	..	4,000	6¼		
		Timmapuram	..	..	1,267	..	1,267	2	Notification No. 87 of 20th Mar. 1888. Bd.'s Procs., F. No. 168 of 9th Apr. 1888.	
	Kúdligi	Sherbi	3,000	4½	..	..	3,000	4½	Notification No. 174 of 13th Sept. 1884. Bd.'s Procs., No. 3374 / F. 304. of 26th Sept. 1884.	
		Gollalinganhalli	1,000	1½	..	..	1,000	1½		
		Tumergudi	2,500	4	..	..	2,500	4		
		Somalapur	1,000	1½	..	..	1,000	1½		
		Sunkadaikal	7,000	11	..	..	7,000	11		
		Shivpur	9,000	14	..	..	9,000	14		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Bellary—*cont.*	Adóni	Adóni (East and West) ..	5,000	8	..	..	5,000	8		
		Ganekolu	1,118	1¾	..	..	1,118	1¾		
		Badinahalli	792	1¼	..	..	792	1¼		
		Kotalam	681	1	..	..	681	1		
		Halekota	486	¾	..	..	486	¾		
		Sulakeri	1,342	2¼	..	..	1,342	2¼		
		Kupgul	4,650	7¼	..	..	4,650	7¼		
		Tungabhadra	4,633	7¼	..	..	4,633	7¼	Notification No. 175 of 16th Sept. 1884.	
		Halevy	1,145	1¾	..	..	1,145	1¾	Bd.'s Procs., No. 3422/F. 310 of 1st Oct. 1884.	
		Kósgi	2,970	4¾	..	..	2,970	4¾		
		Nandavaram	971	1½	..	..	971	1½		
		Ráyachóti	1,863	2¾	..	..	1,863	2¾		
		Kurimetla	3,341	5¼	..	..	3,341	5¼		
		Bunivasi	1,964	3¼	..	..	1,964	3¼		
		Kotakallu	2,569	4	..	..	2,569	4		
		Kudbur	2,952	4¾	..	..	2,952	4¾		
	Hadagalli and Harpanahalli.	Harada	18,000	28¼	..	..	18,000	28¼	Notification of 14th Jan. 1885.	
		Sogy	4,200	6½	..	..	4,200	6½	Bd.'s Procs., No. 253/F. 47 of 26th Jan. 1885.	
	Ráyadrug	Ráyadrug	6,000	9¼	..	..	6,000	9¼	Notification No. 150 of 21st May 1885.	
		Dharmapuri	3,600	5½	..	..	3,600	5½	Bd.'s Procs., No. 1617/F. 307 of 3rd June 1885.	
		Argupa	1,000	1½	..	..	1,000	1½		
	Alúr	Gummanur, (North and West)	..	..	248	..	248	1	Notification No. 65 of 20th Feb. 1888.	
		Do. (North and East)	..	..	332	..	332		Bd.'s Procs., F. No. 125 of 17th Mar. 1888.	
		Do. (North) ..	..	..	69	..	69			
		Total ..	126,877	198¼	1,916		128,793	201¼		
Anantapur.	Penukonda ..	Narasampalle	2,560	4	..	..	2,560	4		
		Ponukonda hill	1,600	2½	..	..	1,600	2½		
		Somandepalle	10,240	16	..	..	10,240	16		
		Yerlampalle	2,240	3½	..	..	2,240	3½		
		Mallapakonda	5,120	8	..	..	5,120	8	Notification No. 166 of 8th May 1886.	
		Malukavemula	960	1½	..	..	960	1½	Bd.'s Procs., F. No. 291 of 26th May 1886.	
		Nyalukota	7,680	12	..	..	7,680	12		
		Neredikonda	2,560	4	..	..	2,560	4		
	Muchukota ..	Muchukota	7,040	11	..	..	7,040	11	Notification No. 191 of 6th Oct. 1884.	
									Bd.'s Procs., No. 3639/F. 354 of 22nd Oct. 1884.	

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Anantapur—*cont.*	Muchukota—*cont.*	Dadithota	1,920	3	..	..	1,920	3		
		Yellutla	5,120	8	..	..	5,120	8		
		Chillevaripalle	3,840	6	..	..	3,840	6	Notification No. 134 of 28th Feb. 1887.	
		Konakuntla	1,280	2	..	..	1,280	2	Bd.'s Procs., F.	
		Nairjampali	1,920	3	..	..	1,920	3		
		Yellanur	320	½	..	..	320	½		
		Durgam	..	..	3,200	..	3,200	5	Notification No. 205 of 20th May 1887.	
		Kudair	..	..	4,480	..	4,480	7	Bd.'s Procs., F. No. 345 of 16th June 1887.	
		Upparapalle	..	..	640	..	640	1		
	Hondupur	Amagondapoliem	16,360	25½	..	..	16,360	25½		
		Dokkalakonda	2,880	4½	..	..	2,880	4½	Notification No. 166 of 8th May 1886.	
		Yerrakonda	3,920	6	..	..	3,920	6	Bd.'s Procs., F. No. 291 of 26th May 1886.	
	Dharmavaram	Guttur	3,200	5	..	..	3,200	5		
		Kaliyandrug (North and South).	960	1½	..	..	960	1½	Notification No. 8 of 22nd Dec. 1886.	
		Ramgiri	10,240	16	..	..	10,240	16	Bd.'s Procs., F. No. 31 of 26th Jan. 1887.	
		Bhadrapur	3,200	5	..	..	3,200	5		
	Gooty	Yadaki	5,120	8	..	..	5,120	8	Notification No. 134 of 28th Feb. 1887. Bd.'s Procs.,	
		Peddadoddi	..	..	3,200	..	3,200	5		
		Jakkalacheruvu	..	..	3,200	..	3,200	5		
		Nagasamudram (North)	..	..	7,040	..	7,040	11		
		Do. (South)	..	..	2,560	..	2,560	4	Notification No. 203 of 20th May 1887.	
		Kuthurmala	..	..	7,680	..	7,680	12	Bd.'s Procs., F. No. 345 of 16th June 1887.	
		Pamidi	..	..	640	..	640	1		
		Bhadrampalle	..	..	2,560	..	2,560	4		
		Marutla	..	..	11,520	..	11,520	18		
		Taramalla	..	..	8,960	..	8,960	14		
		Total	100,280	156⅝	55,680	..	155,960	243½		
Nilgiris	Ootacamund	Nanjanad	1,327	2	..	..	1,327	2	Collector's notice of 17th Nov. 1884.	
		Chemenguli	901	1½	..	..	901	1½		
		Fern Hill Shola	14	..	..	..	14	..		
		Addition to Fair Lawn's block No. I.	22	..	..	..	22	..		
		Do. to Dadabetta block No. II.	17	..	..	..	17	..	Notification No. 428 of 8th Nov. 1886. Bd.'s Procs., F. No. 646 of 29th Nov. 1886.	
		Do. to Dodahalla	10	..	..	..	10	..		
		Bilikal road	25	..	..	..	25	..		

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Nílgiris—*cont.*	Naduvatam	Naduvatam	4,869	8	..	*4,834	35	..	Notification No. 81 of 12th May 1883. Bd.'s Procs., No. 1568 of 2nd June 1883.	* Transferred to Form No. 59 A.
		Devamalai	114	..	..	..	114	..	Notification No. 54 of 24th May 1885. Bd.'s Procs., No. 730/F. 141 of 4th March 1885.	
	Mudumalai	Benne addition	724	1	..	*724	..	..	Notification No. 56 of 20th Feb. 1885. Bd.'s Procs., No. 752/F. 146 of 5th Mar. 1885.	
		Gadsbrook	230	1	..	*230	..	..		
		Cherambadi	1,983	3	..	*1,983	..	..		
		Ammankaval	563	1	..	*563	..	..		
		Nedunkottu	..	..	..	..	..	..		
	Sígúr	Sígúr	48,022	75	..	..	48,022	75	Notification No. 54 of 24th May 1885. Bd.'s Procs., No. 730/F. 141 of 4th Mar. 1885.	
	Coonoor	Honnathalai (South) ..	218	½	..	..	218	½		
		Bettumund	137				137			
		Rallia	382				*382			
		Little Rallia	29				29			
		Rallia Shola	30	1	..	..	30	1		
		Halakarai	172				172			
		Tippakuchi	119				119			
		Billithitta	35				35			
		Dolphin	65				65			
		Guernsey	14	1	..	..	14	1		
		Kodamalai	15				15			
		Neduhatti	509				509			
	Kótagiri	St. Catherine's Fall ..	124				124			
		Constantia	35				35		Notification No. 168 of 20th April 1886. Bd.'s Procs., F. No. 293 of 28th May 1886.	
		Tuttapolliem	54				54			
		Gudakalhalla	299	1	..	..	299	1		
		Bettu, Nos. 1 and 2 ..	29				29			
		Kunnavara addition ..	97				97			
		Kanavatti	16				16			
		Deepdale	361	½	..	..	361	½		
		Gudakal	600				600			
		Clyffe	33	1	..	..	33	1		
		Yercaud halla	20				20			
		Konakarai slopes	1,864	3	..	..	1,864	3		
		Dodabetta	105				105			
		Shamrock	43	½	..	..	43	½		
		Bikkehatti	19				19			

Area of reserved lands for 1887-88—*cont.*

District.	Range.	Names of forests.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	Number and date of notification of addition or transfer.	Remarks.
Nílgiris—*cont.*	Kótagiri—*cont.*	Ittakal, Nos. 1 and 2	21		..	..	21			
		Mavada	211	½	..	..	211	½		
		Kuttada, Nos. 1 and 2	29		..	..	29			
		Vagapanai	2,648	4	..	..	2,648	4		
		Denad	2,072	3	..	..	2,072	3		
		Sundatti	124		..	..	124			
		Kunshola	159		..	..	159			
		Kirkanara, Nos. 1 and 2	24		..	..	24			
		Killatti	17		..	..	17			
		Hadumund	48	1	..	..	48	1		
		Uppatti	53		..	..	53			
		Doddakaru	62		..	..	62			
		Ullavanad Shola	57		..	..	57			
		Sinnathu shola	51		..	..	51			
		Madanad	722	1	..	..	722	1	Notification No. 168 of 20th Apr. 1886. Bd.'s Procs., F. No. 293 of 28th May 1886.	
		Kadanad valley	294	½	..	..	294	½		
		Nedukadnhalla	908	1½	..	..	908	1½		
		Nedugula	89		..	..	89			
		Longwood reserve additions, Nos. 1 and 2.	31		..	..	31			
	Kullár	Addition to Kullar reserve No. I.	59	½	..	..	59	½		
		Addition to Kullar reserve No. II.	13		..	..	13			
		Benhope, No. 2	34		..	..	34			
		Jókkanare slopes	6,419	10	..	..	6,419	10		
		Kullár	388	½	..	..	388	½		
		Total	78,778	123	..	8,334	70,444	109		
	Abstract	Ganjam	354,560	556½	..	5,486	349,074	548		
		Vizagapatam	..	..	5,000	..	5,000	8		
		Godávari	414,225	646½	41,940	2,614	453,551	708		
		Kistna	442,579	691½	10,050	13,814	438,815	686		
		Nellore	325,129	511	9,200	23,800	310,529	488		
		Cuddapah	1,135,079	1,772	..	73,656	1,061,423	1,656½		
		Kurnool	1,073,280	1,677	26,500	..	1,099,780	1,718½		
		Bellary	126,877	198¾	1,916	..	128,793	201¼		
		Anantapur	100,280	156¾	55,680	..	155,960	243¾		
		Nílgiris	78,778	123	..	8,334	70,444	109		
		Grand Total	4,056,787	6,332¾	150,286	127,704	4,073,369	6,367¼		

Annual Form No. 59 D.

Forest Department, Madras, Northern Circle.

Area of leased forests for 1887-88.

District.	Range.	Names of forests.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		Number and date of notification of addition or transfer.	Remarks.
			Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
Bellary ..	Sandúr	Sandúr	40,000	62½	..	..	40,000	62½		
Nilgiris ..	Mudumalai	Mudumalai	87,285	136	..	..	87,285	136		
		Total ..	127,285	198½	..	..	127,285	198½		

Annual Form No. 60.

Forest Department, Madras, Northern Circle.

Area of Plantations, 1887-88.

District.	Range.	Name of plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Godávari	Narsápur	Rustambadu	24	4,153	..	..	24	4,153	Formed in 1866-67.
		Sitarampuram	26				26		
	Amalápuram ..	Bendamurlunka (old)	27	2,014	..	..	27	2,014	Do. in 1875-76.
		Do. (new)	20	1,144	..	84	20	1,312	Do. in 1882-83.
				* 84					*Rs. 84 was omitted in the returns for 1886-87.
		Total ..	97	7,395*	..	84	97	7,479	
Kistna	Bandar	Karrimid	20	387	—(a) 6	..	14	387	(a) Rectification of area.
		Masulipatam sepoy lines	94	2,672	10	712	75	3,384	Commenced in 1885.
					—(b) 29				(b) Rectification of area.
	Gudivada	Kodúr	40	234	..	53	40	287	
		Gopavanipalem	15	347	10	417	25	764	Commenced in 1886.
		Konkolu	137	1,419	..	170	137	1,589	
		Allinagaram	125	771	..	52	125	823	
		Korlapadu	20	229	..	..	20	229	
		Mandaralli	7	227	— 7	— 227	..	..	Sold.
		Iyawar Rudravaram	20		— 20				
		Bomminampadu	26	310	..	48	26	358	
		Vemarrapadu	16	272	..	..	16	272	
		Venudhuru	25	354	..	48	25	402	
	Bezvada	Ibrampatam	24	255	..	113	24	366	
	Krósúr	Gavaravaram	39	229	—(c) 9	57	30	286	(c) Rectification of area.
	Bápatla	Bápatla	19	564	2	72	21	636	
		Karlapalem	75	3,929	4	124	79	4,053	
		Vedhullapalle	13	440	..	27	13	467	
		Wardarevu	70	3,571	2	72	72	3,643	
		Nayanipalli	10	1,100	2	72	12	1,172	
		Pandhillapalli	12	438	2	72	14	510	
		Total ..	807	† 17,748	+ 32	+ 2,109	768	19,630	† Rs. 295 included, was omitted in the return for 1886-87.
					— 71	— 227			
Nellore	Gúdúr	Dugarázpatnam	515	37,348	100	2,015	615	39,363	Commenced in 1873.
		Kothapatnam	410	29,126	50	1,084	460	30,210	
		Tamminapatam	489	42,680	10	940	499	43,620	Do. in 1873.
		Chandrasikuppam	10	622	..	48	10	670	
	Nellore	Allipuram	39	9,287	..	..	39	9,287	Do. in 1873.
		Utukur	180	16,038	..	72	180	16,110	Do. in 1875.
		Varani	292	34,684	..	48	292	34,732	Do. in 1874.

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			Acs.	Rs.	Acs.	Rs.	Acs.	Rs.	
Nellore—*cont.*	Atmakúr	Mamudur	9	1,434	..	..	9	1,434	
	Kávali	Tummalapenta	54	18,668	46	49	100	18,717	Commenced in 1873.
	Kandukúr	Ramayapatnam	40	19,506	20	49	60	19,555	
	Ongole	Kothapatnam	35	14,666	111	48	146	14,714	
		Kanuparti	20½	16,498	229½	48	250	16,546	Do. in 1873.
		Total	2,093½	2,40,557	566½	4,401	2,660	2,44,958	
Cuddapah	Kódúr	Kódúr	37	7,010	..	74	37	7,084	Commenced in 1865.
		Uparapalle	108	8,327	..	72	108	8,399	Do. in 1868-69.
		Reddipalle	925	13,232	..	72	925	13,304	Do. in 1869-70.
	Rájampet	Pullampet	426	7,964	..	72	426	8,036	Do. in 1871.
	Cuddapah	Kamalápuram	332	10,162	..	63	332	10,225	Do. in 1869.
	Kódúr	Arimanabunda	4	678	..	96	4	774	Do. in 1883-84.
		Pallegundalamadugu	30	228	..	..	30	228	Do. in 1886-87.
		Total	1,862	47,601	..	449	1,862	48,050	
Nílgiris	Ootacamund	Mudumalai	101	27,870	..	80	101	27,950	
		Benne			..	9	23	10,209	Old Sígúr plantation.
		Northernhay	23	10,200	..	140	277	10,603	Includes the old plantations of Hoopatti, Andy, Sheffield, Cully, Choughatcully, Baikie and Madana. Commenced in 1880.
		Governor's shola	277	10,463	..				
		Chemenguli	33	3,861	..	..	33	3,861	Commenced in 1879.
		Muthanad	95	6,694	..	19	95	6,713	Do. in 1880.
		Brooklands	10	328	..	..	10	328	Do. in 1862.
		Aramby	208	12,638	12	1,260	220	13,898	Do. in 1863, includes Koolie plantation.
		Marliamund	11	830	..	3	11	833	Do. in 1860.
		Snowdon	7	214	..	..	7	214	Do. in 1860.
		Cairn hill	152	10,766	8½	1,309	160½	12,075	Do. in 1877.
		Devashola	14	1,637	..	3	14	1,640	Do. in 1880.
		Blackbridge	56	1,921	..	..	56	1,921	Do. in 1874, includes Rock plantation.
		Bleakhouse	235	4,561	..	143	235	4,704	Do. in 1857.
		Bandyshola			8½	543	210½	6,597	Do. in 1872.
		Coonoor peak	202	6,054	..	..	35	783	Do. in 1882.
		Tippakutchi	35	783	..	..	105	2,571	
		Rallia	105	2,571	1½	390	1½	851	
		Lovedale	..	461					

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			Acs.	Rs.	Acs.	Rs.	Acs.	Rs.	
Nilgiris—*cont.*	Coonoor	Sim's park	..	625 (a)	2	406	2	1,031	(a) omitted in the last year's return.
		Ghat reserve	..	..	9	406	9	406	
	Kótagiri	Longwood	..	102 (a)	7	26	..	128	
		Kullar	..	1,615(a)	92½	1,424	92½	3,039	
	Ootacamund and Coonoor.	Municipal Assessment	..	..	..	1,752	..	..	
		Total ..	15,64	1,04,194	141	7,913	1,705	1,12,107	
CULTURAL OPERATIONS.									
Ganjam	Goomsur	Mojagodo	3½	642	..	78	3½	720	Formed in 1869-70.
		Total ..	3½	642	..	78	3½	720	
Vizagapatam	Pálkonda	Voni	25	451	..	390	25	1,460	
		Lakshmipuram	26	619	..		26	..	
		Total ..	51	1,070	..	390	51	1,460	
Kistna	Bezváda	Kondapalle	..	355	..	— 355	..	..	Given up as a failure. Experimental planting of rubber trees.
	Guntúr	Yerrapalem	..	93	..	— 143	..	..	
						+ 50			
	Bezváda	Bezváda	..	..	..	70	..	70	Planting of mahogany and soymida and sowings in trenches of seeds of various species. Experimental planting of Ceara rubber.
		Total ..	..	448	..	— 498	..	70	
						+ 120			
Nellore	Kávali and Kandukúr.	....	50	324	..	..	50	324	Miscellaneous sowings in forest and among prickly-pear.
	Gúdúr	Srîharikót	..	1,136	10	217	10	1,353	Sowing and planting of blanks in the natural jungle.
		Total ..	50	1,460	10	217	60	1,677	
Cuddapah	Cuddapah	Kamalápuram	10	..	— 10	..	..	..	Sown with babul in 1884-85, but failed.
		Do.	8	18	..	..	8	18	Sown with babul by goats and sheep in April 1885, March and August 1886.
		Do.	18	121	..	92	18	213	Sown with drisanam and vepa.
		Do.	42	56	50	42	92	98	Sown with 30,000 palmyras. Germinating well.

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			ACS.	RS.	ACS.	RS.	ACS.	RS.	
Cuddapah—*cont.*	Cuddapah—*cont.*	Kamalápuram	5	3	— 5	— 3	..	..	Sowings in prickly-pear unsuccessful.
		Do.	3	17	..	30	3	47	Watering *Dalbergia sissu* seedlings planted in 1886.
		Do.	¼	..	..	..	¼	..	*Adenanthera pavoniana* planted in 1886 died; more were sown, but have not germinated. Edible cactus doing well.
		Appaiapalle	2	..	..	..	2	..	Sowings of vepa in prickly-pear.
		Do.	23	25	..	..	23	25	Sown with palmyras and drisanam; doing well.
		Do.	¼	..	..	4	¼	4	Watering *Adenanthera pavoniana* and *Livingstonia mansetiana* sown in March 1887.
	Rájampet	Pullampet	99	134	8	12	107	146	Sown with tangedu after ploughing.
	Kódúr	Reddipalle	7	3	..	..	7	3	Do. do.
		Balapalle west reserve evergreen forest 1, compartment 5-*b* ..	12	9	..	..	12	9	
		Balapalle working circle 1, compartment 6-*b*	30	62	..	183	30	245	Planted with red sanders, ironwood, satinwood, yellama and Hardwickia.
		Kódúr tope	7	7	— 7	— 7	..	..	Sown with tangedu seeds but failed.
		Ooparapalle	½	..	— ½	..	..	..	Various seeds dibbled in but failed.
		Pallagundamadu	..	..	25	62	25	62	Planted with mahogany, ironwood and blackwood.
		Sandakana	..	..	5	146	5	146	714 teak seedlings planted.
	Proddutur and Jammalamadugu.	Gandikota reserve	321	18	..	..	321	18	No planting in 1887-88.
		Pennér river bank near Proddutur	135	114	25	85	160	199	Sowing 25,000 palmyras.
	Váyalpád	Ankalammakonda	22	61	..	..	22	61	No planting in 1887-88.
		Nurukupalakonda	5	41	..	..	5	41	
	Kádiri	Nigadi	4	..	..	..	4	..	
	Madanapalle ..	Horsleykonda	2	..	— 2	..	..	..	Hill-side sown with sandalwood seed but failed.
		Do.	..	..	1½	12	1½	12	Planted with Acrocarpus, Eucalyptus and Cupressus seedlings.
		Do.	1	..	— 1	..	..	..	Hill-side sown with Hardwickia but failed.
		Basinikonda	..	..	½	..	½	..	55 vepa plants put out, only 17 still alive.

Area of Plantations, 1887-88—*cont.*

District.	Range.	Name of plantation.	On 1st April 1887.		Added during 1887-88.		On 31st March 1888.		Remarks.
			Area.	Cost.	Area.	Cost.	Total Area.	Total Cost.	
			Acs.	Rs.	Acs.	Rs.	Acs.	Rs.	
Cuddapah—*cont.* ..	Madanapalle ..	Horsleykonda	1	39	..	..	1	39	Nurseries.
	Kódúr	Balapalle	2	659	..	373	2	1,032	
		Total ..	760	1,387	+ 114½ — 25½	+ 1,041 — 10	849	2,418	
Bellary	Hospet	Gandlavattugiri	4	..	..	..	4	..	
	Sandúr	Nayanahalli	10	..	..	..	10	..	
		Ramandrug nursery	..	..	..	56	..	56	
		Total ..	14	..	..	56	14	56	
		Total, Plantations ..	6,423½	4,17,495	668½	14,729	7,092	4,32,224	
		Total, Cultural operations ..	878½	5,007	99	1,394	977½	6,401	
		Grand Total ..	7,302	4,22,502	767½	16,123	8,069½	4,38,625	

FOREST DEPARTMENT.

ANNUAL FORM No. 61.

Forest Department, Madras, Northern Circle.

Annual statement of Topes.

District.	Taluk.	Number of topes.	Area.	Cost		Remarks.
				During year.	To end of year.	
			ACS.	RS.	RS.	
Ganjam ..	Berhampore	3	13	724	922	Scattered trees in villages.
	Goomsúr	1	83			
	Gumsúr and Suradá ..	..	1,063			
	Chicacole	3	5			
	Total ..	7	1,164	724	922	
Vizagapatam ..	Pálkonda	2	56	..	8	
	Total ..	2	56	..	8	
Godávari ..	Rámachandrapuram ..	8	30	..	..	
	Total ..	8	30	..	..	
Kistna	Bandar	2	9	* 119	596	In Masulipatam. * Of this Rs. 34 was spent during 1886-87.
	Gudiváda	1	5	58	265	
	Bezváda	1	4	48	238	One tope of 5 acres was sold.
	Nandigáma	1	11	45	283	
	Vinukonda	1	6	48	257	
	Narsaraopet	1	7	52	226	
	Sattenapalle	1	6	15	15	
	Bápatla	1	2	† 57	1,298	† Incurred during 1886-87.
	Rópalle	1	1	..	..	
	Palnád	1	21	‡ 554	950	‡ Of this Rs. 72 was incurred during 1886-87.
	Peddamaddur	1	3	..	..	Taken over by this department under G.O., No. 234, of 22nd March 1888.
	Total ..	12	75	996	4,128	
Nellore	Gúdúr	11	124	..	3,206	
	Rápúr	15	183	..	8,533	
	Nellore	33	380	..	6,599	
	Atmakúr	3	12	..	4,420	
	Venkatagiri	9	130	..	2,793	
	Kávali	17	742	..	4,190	
	Udayagiri	4	29	..	2,665	
	Kandukúr	6	13	..	1,853	
	Kanigiri	5	19	..	1,408	
	Ongole	4	107	..	1,212	
	Podili	4	13	..	1,165	
	Total ..	111	1,752	..	38,044	
Cuddapah ..	Pullampet	§ 8	69	151	5,558	§ One tope omitted in 1886-87, is added.
	Sidhout	4	40	57	8,096	
	Badvél	6	63	112	2,679	
	Proddutur	2	32	..	1,710	
	Jammalamadugu ..	9	309	80	12,431	
	Pulivendla	10	638	157	4,882	
	Cuddapah	7	148	182	6,043	
	Kadiri	8	73	33	2,175	
	Madanapalle	8	68	178	6,410	
	Ráyachóti	5	95	8	1,623	
	Váyalpád	3	30	4	3,442	
	All	..	5,764	..	..	Scattered trees in villages. It is proposed to omit the area of 5,764 acres as the scattered trees on them cannot be called topes.
	Total ..	70	7,329	962	55,049	

Annual statement of Topes—*cont.*

District.	Taluk.	Number of topes.	Area.	Cost		Remarks.
				During year.	To end of year.	
			ACS.	RS.	RS.	
Kurnool	Rámallakót	7	66	..	839	
	Pattikonda	5	29	..	1,879	
	Koilkuntla	4	9	..	3,683	
	Nandikótkur	1	2	48	305	
	Nandyál	3	33	100	1,177	
	Sirvel	1	6	..	147	
	Cumbum	3	23	88	349	
	Márkápur	3	14	..	257	
	Total ..	27	182	236	8,636	
Bellary	Bellary	6	86	..	..	
	Kúdligi	4	9	..	..	
	Hadgalli	2	11	..	41	The difference of Rs. 189 is the cost incurred in 1886-87, which was omitted in Form No. 61.
	Harpanahalli	2	3	..	..	
	Alúr	11	101	40	88	
	Adóni	6	30	133	460	
	Total ..	31	240	173	589	
Anantapur ..	Anantapur	5	124	25	150	
	Gooty	10	184	50	98	
	Tadpatri	15	565	75	123	
	Dharmavaram	29	1,555	96	2,270	
	Hindupur	16	121	80	170	
	Penukonda	15	310	70	70	
	Madaksira	5	26	24	50	
	Total ..	95	2,885	420	2,931	
Nílgiris	Coonoor	1	2	..	625	Transferred to form No. 69.
	Total ..	1	2	..	625	
	Grand Total ..	364	13,715	3,511	1,10,932	

Annual Form No. 62.

Forest Department, Madras, Northern Circle.

Area of Forest Tracts protected from fire during the dry season of 1887-88, to accompany report for 1887-88.

District and Range.	Forest Tract.	Area on 1st April 1887.		During dry season of 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Rs.	Rs.		
Ganjam .. Berhampore	Mohiri hills	18,880	479	18,880	650	18,230	127	606	1885	Specially protected.
Ganjam .. Kukuluba	Chondragiri and Ambazara ..	4,640	456	4,640	150	4,490	612	1,058	1885	Specially protected.
Ganjam .. Mojagodo	Baibali and Darpangia	21,775	125	21,775	22	21,753	883	1,008	1885	Specially protected.
	Total ..	45,295	1,060	45,295	822	44,473	1,622	2,682		
Godávari. Bhadráchalam ..	Rapak	12,600	..	7,000	7,000	..	..	..	1887	Specially protected.
Godávari. Bhadráchalam ..	Rámachandram	10,300	..	10,000	1,920	8,080	..	..	1887	Specially protected.
Godávari. Bhadráchalam ..	Tatlunka	800	..	12,000	2,560	9,440	..	..	1887	Specially protected.
Godávari. Rajahmundry ..	Devancheruvu	5,000	..	2,350	..	2,350	57	57	1887	Specially protected.
Godávari. Rajahmundry ..	Kothapalle	21,700	..	21,000	16,000	5,000	41	41	1887	Specially protected.
Godávari. Rajahmundry ..	Rámesvaram	..	..	1,300	..	1,300	..	..	1888	Specially protected.
Godávari. Ellore	Barrikonda	..	..	3,840	200	3,640	..	..	1888	Specially protected.
Godávari. Ellore	Bandamcherla	..	..	6,400	..	6,400	..	..	1888	Specially protected.
Godávari. Ellore	Velagalapalle	..	..	2,560	..	2,560	..	..	1888	Specially protected.
Godávari. Ellore	Chintalapudi	..	..	2,560	..	2,560	..	..	1888	Specially protected.
Godávari. Ellore	Ramasingavaram	..	..	1,920	..	1,920	..	..	1888	Specially protected.
Godávari. Ellore	Tadikolapudi	..	..	2,560	..	2,560	..	..	1888	Specially protected.
	Total ..	50,400	..	73,490	27,680	45,810	98	98		
Kistna .. Bezváda	Kondapalle	8,000	1,244	8,320	..	8,320	563	1,807	1884	Specially protected.
Kistna .. Vinukonda	Bollapalle	6,400	671	6,400	..	6,400	129	800	1885	Specially protected.
Kistna .. Palnád	Mutukur	6,327	195	6,400	..	6,400	..	195	1885	Specially protected.
	Madhinapadu	1,920	192	1,920	..	1,920	112	304	1885	Specially protected.
	Total ..	22,647	2,302	23,040	..	23,040	804	3,106		
Nellore .. Rápúr	Rápúr Veligondas	13,000	195	27,000	1,760	25,240	..	195	1885	Ordinary staff.
Nellore .. Udayagiri	Udayagiri	8,000	70	23,000	1,600	21,400	376	446	1885	Ordinary staff.
Nellore .. Kanigiri	Kanigiri	34,000	..	25,000	1,200	23,800	..	..	1885	Ordinary staff.
	Total ..	55,000	265	75,000	4,560	70,440	376	641		

Area of Forest Tracts protected from fire during the dry season of 1887-88, to accompany report for 1887-88—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1887.		During dry season of 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Rs.	Rs.		
Cuddapah — Kódúr	Ballipalle (west)	6,307	1,584	6,307	..	6,307	305	1,889	1867	Specially protected.
	Do. (east)	6,460	1,691	8,960	500	8,460	374	2,065	1871	
	Kódúr hill	6,440	1,222	7,440	600	6,840	274	1,496	1874	
	Vagetikona	2,315	517	3,595	..	3,595	92	609		
	Yerraguntlakota	2,850	1,000	3,000	1,565	1,435	185	1,185	1873	
	Rallakonda	..	378	1,565	..	1,565	50	428	1879	
	Gadela	800	647	6,800	20	6,780	90	737	1874	
	Thanakonda	1,041	407	1,048	6	1,042	67	474		
	Rollamadugu	5,424	244	5,424	..	5,424	65	309	1878	Ordinary staff.
Rájampet	Srirangarazupallium	4,320	739	5,000	..	5,000	228	967	1883	Specially protected
	Vattalur hill	(a) 2,876	75	2,880	..	2,880	99	174	1887	
Kadiri	Nigadi	13,200	687	14,000	50	13,950	136	823	1881	Specially protected.
	Malakavemula	8,500	387	8,500	..	8,500	52	439		Ordinary staff.
	Kondakomerla	3,700	204	3,700	..	3,700	15	219		
	Thummala	..	227	2,495	..	2,495	..	227		
	Kokanti	2,000	184	2,000	..	2,000	15	199		
	Gorivikanama	18,000	209	18,000	..	18,000	..	209		
Madanapalle	Rekkalakonda	1,200	167	1,200	..	1,200	11	178		
	Mallayakonda	2,200	194	2,200	..	2,200	11	205		
	Kosuvaripalle	1,400	132	1,400	..	1,400	11	143	1881	
	Soampalle	800	98	800	..	800	..	98		
	Horsleykonda	9,030	479	9,630	..	9,630	103	582		Specially protected.
Váyalpád	Yellutla	3,500	207	3,500	..	3,500	18	225		Ordinary staff.
	Nadimcherla	2,000	201	2,000	..	2,000	18	219		
	Nurukuppalakonda	3,600	324	3,600	..	3,600	72	396		Specially protected.
	Ankalammakonda	2,000	311	2,000	..	2,000	79	390		
	Gorantlapalle	4,000	194	4,000	..	4,000	16	210		Ordinary staff.
Cuddapah	Mamillapalle	2,300	662	3,000	..	3,000	319	981		
Cuddapah and Ráyachóti.	Guvalacheruvu	600	591	7,600	..	7,600	226	817	1883	Specially protected.
Ráyachóti	Gadikota	4,000	685	12,480	1,000	11,480	154	839		
	Sibaala	3,500	10	3,500	..	3,500	88	48	1887	Ordinary staff.
	Tsundupalle	3,000	5	3,000	..	3,000	23	28		
Sidhout	Arapayakanama	2,500	498	10,000	10,000	..	293	791	1883	Specially protected.
	Kanamalapalle	1,110	191	4,435	..	4,435	437	628	1887	
Badvél	Kottakota	8,615	436	8,640	103	8,537	161	597	1885	
Proddutur	Mudireddipalle	9,000	656	12,000	..	12,000	161	817	1883	
	Ramesvaram	91	29	91	..	91	..	29	1881	Ordinary staff.
	Thalamapuram	153	34	153	..	153	..	34		
	Vellala	258	34	258	..	258	..	34		
	Alladupalle	197	33	197	..	197	..	33		

(a) Omitted in the statement of 1886-87.

Area of Forest Tracts protected from fire during the dry season of 1887-88, to accompany report for 1887-88—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1887.		During dry season of 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Rs.	Rs.		
Cuddapah —*cont.*	Proddutur—*cont.* .. Payadala	99	19	99	..	99	..	19		
	Nidijuvi	696	85	696	..	696	16	101		
	Kothapalle	120	19	120	..	120	..	19		
	Kalamalla	430	68	730	..	730	21	147		
	Jammalamadugu .. Kosinepalle	300	58							
	Proddutur .. .. Modanathipalle	86	18	86	..	86	..	18		
	Ananthapuram	138	19	138	..	138	..	19		
	Kallur	160	17	160	..	160	..	17		
	Kondasankesula	858	77	858	..	858	18	95		
	Gandikota	200	81	372	..	372	12	93	1881	Ordinary staff.
	Yamavaram	..	70	200	..	200	21	91		
	Dhodiem	(*b*) 589	43	1,345	..	1,345	16	102		
	Jammalamadugu .. Murupandi	(*c*) 756	43							
	Malamedikambaladinne	787	67	1,366	..	1,366	9	141		
	Kódúr	579	65							
	Aravetipalle	200	28	850	..	850	23	106		
	Denepalle	350	25							
	Peddadudiala	300	30							
	Total ..	1,55,935	17,405	2,03,418	13,844	189,574	4,334	21,739		
Kurnool ..	Atmakúr .. .. Atmakúr-Velgode	14,500	2,480	14,500	..	14,500	..	2,480	1884	Ordinary staff.
	Nandikótkur .. .. Bairluti	..	..	4,500	2,250	2,250	275	275	1887	Specially protected.
	Total ..	14,500	2,480	19,000	2,250	16,750	275	2,755		
Bellary ..	Sandúr .. .. .. Sandúr	2,750	1,093	2,750	..	2,750	168	1,259		
	Hospet	..	762	1,050	..	1,050	64	826		
	Venkatagiri	850	339	1,150	..	1,150	70	409		
	Gound	3,000	636	5,050	..	5,050	306	942	1883	
	Gurga	1,600	635	2,430	..	2,430	148	783		
	Kanavahalli	2,500	626	4,160	..	4,160	252	878		
	Dharmapur	2,150	404	2,150	..	2,150	130	534		Specially protected.
	Basapur	1,030	263	2,230	..	2,230	108	371		
	Konapur	360	260	1,960	..	1,960	95	355		
	Honsahatti	3,760	347	3,760	..	3,760	182	529	1885	
	Kakbal	3,240	347	3,240	..	3,240	157	504		
	Joga	1,400	345	2,440	..	2,440	118	463		
	Madarhalli	2,380	300	2,380	..	2,380	115	415		

(*b*) and (*c*).—The figures given in the statement of 1886-87 were wrong by 130 acres.

Area of Forest Tracts protected from fire during the dry season of 1887-88, to accompany report for 1887-88—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1887.		During dry season of 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Rs.	Rs.		
Bellary—*cont.*	Yethinahatty	2,443	116	2,443	40	2,403	220	336		
	Basapur D.	419	20	419	..	419	40	60		
	Hosahalli	1,206	57	1,206	..	1,206	110	167		
Sandúr—*cont.*	Muthakalpeta	1,342	63	1,342	..	1,342	122	185	1886-87	
	Appanahally	1,239	59	1,239	..	1,239	113	172		
	Obligundi	1,729	98	2,069	..	2,069	189	287		Specially protected.
	Lingathahally	486	23	486	..	486	45	68		
Western Range	Shivpur	9,000	412	9,000	..	9,000	92	504	1885	
	Sherbi	3,000	63	3,000	..	3,000	66	129	1886-87	
Bellary	Sunkadakal	7,000	13	7,000	..	7,000	86	99		
	Malpangudi	700	287	3,000	302	2,698	146	433	1884	
Kúdligi and Hospet	Bandri	7,000	..	7,000	2,000	5,000	..	..	..	
	Gound	3,000	..	3,000	..	3,000	..	..	..	
	Hospet	5,000	..	5,000	640	4,360	..	..	..	
Hospet	Jog	4,000	..	4,000	..	4,000	..	..	..	
	Thornagal	500	..	2,100	..	2,100	..	..	..	
	Oblagundi	1,000	..	1,000	..	1,000	..	..	..	
	Bellary	1,000	..	8,000	600	7,400	..	..	..	
Bellary	Mincheri	4,000	..	4,000	..	4,000	..	..	..	
	Gollalinganahally	1,000	..	1,000	..	1,000	..	..	..	
	Tummurgudy	2,500	..	2,500	..	2,500	..	..	..	
Kúdligi	Somalapur	1,000	..	1,000	1,000	..	..	..	..	
	Adóni (west)	4,520	..	5,000	..	5,000	..	..	..	
	Do. (east)									
	Ganekola	1,118	..	1,118	..	1,118	..	..	..	
	Badanahatty	792	..	792	..	792	..	..	..	Ordinary staff.
	Kowtalam	681	..	681	..	681	..	..	..	
	Halikota	486	..	486	..	486	..	..	..	
	Sulakeri	1,342	..	1,342	..	1,342	..	..	..	
	Kupgal	4,650	..	4,650	..	4,650	..	..	..	
Adóni	Tungabhadra	4,633	..	4,633	..	4,633	..	..	..	
	Halvey	1,145	..	1,145	..	1,145	..	..	..	
	Kosgi	2,970	..	2,970	..	2,970	..	..	..	
	Nandavaram	971	..	971	..	971	..	..	..	
	Ráyachóti	1,863	..	1,863	..	1,863	..	..	..	
	Kurimetla	3,341	..	3,341	..	3,341	..	..	..	
	Bemivasi	1,964	..	1,964	..	1,964	..	..	..	
	Kotakallu	2,569	..	2,569	..	2,569	..	..	..	
	Kudbur	2,952	..	2,952	..	2,952	..	..	..	
Hadgalli and Harpanahalli.	Harada	..	..	18,000	8,000	10,000	..	..	..	
	Sogy	..	..	4,200	..	4,200	..	..	..	
	Ráydrug	6,000	..	6,000	..	6,000	..	..	..	
	Dharmapuri	3,600	..	3,600	..	3,600	..	..	..	

Area of Forest Tracts protected from fire during the dry season of 1887-88, to accompany report for 1887-88—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1887.		During dry season of 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Rs.	Rs.		
Bellary—*cont.*	Aduguppa'	1,000	..	1,000	..	1,000	..	..	..	Ordinary staff.
Alúr	Gummanoor (north-west)	..	..	248	..	248	..	..	..	
	Do. (north-east)	..	..	332	..	332	..	..	..	
	Do. (north)	..	..	69	..	69	..	..	..	
Bellary	Timmapuram	..	..	1,267	..	1,267	..	..	..	
	Total ..	130,181	7,568	175,747	12,582	163,165	3,140	10,708		
Anantapur. Penukonda	Kottakota	620	815	5,120	80	5,040	207	1,022	1884	Specially protected.
Muchukota	Muchukota	15,949	2,433	16,000	..	16,000	599	3,032		
Hindupur ..	Amagondapolliam	15,360	677	15,360	..	15,360	218	895		
	Dokulkonda	2,880	33	2,880	..	2,880	50	83	1885	Fire patrols.
	Somarazmalai	1,920	58	1,920	..	1,920	26	84		
Penukonda ..	Narsimpalle	1,280	12	1,280	..	1,280	19	31	1886	
	Mallapakonda	4,609	8	5,120	..	5,120	48	56		
Dharmavaram	Guttur	..	..	3,200	..	3,200	67	67		
	Total ..	42,618	4,036	50,880	80	50,800	1,234	5,270		
Nilgiris .. Mudumalai	Mudumalai plantation	101	2,037	101	..	101	363	2,400	1883	Specially protected.
	Benne									
	Northernhay	23	686	23	..	23	51	737		
	Moyar	13,238	58	13,238	..	13,238	162	220		Ordinary staff.
	Singara	1,970	34	1,970	..	1,970	15	49		
	Bockepuram	2,008	34	2,008	..	2,008	15	49	1886	
	Kalhatti	5,005	34	5,005	..	5,005	15	49		
	Sigúr	48,022	34	48,022	..	48,022	29	63		
	Aramby	430	199	430	4	426	44	243	1883	Specially protected.
	Marliamund plantation	17	157	17	..	17	25	182		
	Do. Shola	..	..	75	..	75	26	26	1887	Ordinary staff.
	Governor's Shola	670	551	670	..	670	85	636		Specially protected.
	Cairn Hill	403	198	403	..	403	39	237		
	Pykara	844	102	844	..	844	18	120		Ordinary staff.
	Muthanad	457	211	457	..	457	34	245	1883	Specially protected.
	Snowdon	1,053	75	1,053	..	1,053	19	94		
Ootacamund	Dodabetta	23	69	23	..	23	5	74		
	Elk Hill	184	173	184	..	184	11	184		
	Lovedale (east)	127	14	127	..	127	7	21		
	Do. (west)	74	15	74	..	74	7	22		Ordinary staff.
	Ulnad	430	28	430	..	430	10	38		
	Dodabetta, Nos. I and II	773	7	773	..	773	6	13	1886	
	Woodcock, Nos. I; II and III ..	24	7	24	..	24	5	12		
	Kótagiri trace, Nos. I and II ..	51	7	51	..	51	5	12		
	Yemmaikal	211	20	211	..	211	10	30		

Area of Forest Tracts protected from fire during the dry season of 1887-88, to accompany report for 1887-88—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1887.		During dry season of 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		Acs.	Rs.	Acs.	Acs.	Acs.	Acs.	Acs.		
Nílgiris—*cont.*	Ootacamund—*cont.*									
	Sandynullah	818	14	818	..	818	10	24		Ordinary staff.
	Kengodu	415	14	415	..	415	10	24		
	Ebanád	571	29	571	..	571	7	36		
	Kadcoopa	1,622	14	1,622	..	1,622	6	20		
	Pichelbettu	1,668	14	1,668	..	1,668	6	20		
	Ithalar	242	14	242	..	242	3	17	1886	
	Puthuhatty	27	14	27	..	27	3	17		
	Nergodumund	55	14	55	..	55	25	39		Specially protected.
	Jakuntha	370	14	370	..	370	10	24		Ordinary staff.
	Honnathalai	320	43	218	..	218	9	52		
	Kullar	803	199	803	3	800	179	378		
	Aduthoré	760	108	760	56	704	36	144		
	Barliyár	126	86	126	..	126	40	126		
	Hulikal	2,280	249	6,411	..	6,411	72	321		
	Rallia	105	221	105	..	105	55	276		Specially protected.
	Lamb's rock	716	230	708	..	708	66	296		
	Commandu	993	115	933	10	923	9	124		Ordinary staff.
	Tiger hill	317	77	314	..	314	40	117		
	Ghât reserve	261	152	247	..	247	27	179		Specially protected.
	Coonoor peak	256	125	259	..	259	63	188		
	Coonoor — Hill grove	..	31	147	..	147	17	48	1883	
	Benhope	46	73	40	..	40	22	95		
	Sim's park and spring field	70	62	118	..	118	14	76		
	Bandy shola	111	55	111	..	111	16	71		
	Devashola (north and south)	214	94	214	..	214	3	97		Ordinary staff.
	Bleak house	56	56	52	..	52	14	70		Specially protected.
	River reserve	53	84	53	..	53	30	114		
	Black bridge	391	117	390	..	390	37	154		
	Town shola	11	45	11	..	11	2	47		
	Brooklands	14	47	14	..	14	2	49		
	Jakanare	..	50	6,419	..	6,419	33	83	1886	Ordinary staff.
	Kótagiri — Longwood	262	319	262	..	262	28	347	1885	
	Kunnavara	100	48	100	..	100	27	75		
	Kesalhada	156	41	156	..	156	27	68	1886	
	Kerbetta	12	35	12	..	12	13	48		
	Nott shola	8	31	8	..	8	29	60		
	Naduvatam — Naduvatam sholas	..	121	16,135	2,310	13,825	52	173	1885	
	South-East Wynaad reserves	..	63	..	..	..	39	102	1886	
	Kundahs — Kundahs	40,521	182	40,521	200	40,321	47	271	1885	
	Thiashola	1,551		1,551	35	1,516	18			
	Mikkeru	1,267		1,267	..	1,267	12			
	Heriyaslrige	2,175		2,175	10	2,165	12			
	Melúr — Pembroke	122	46	122	..	122	9	55	1886	
	Thalakad	231	37	231	4	227	8	45		

Area of Forest Tracts protected from fire during the dry season of 1887-88, to accompany report for 1887-88—*cont.*

District and Range.	Forest Tract.	Area on 1st April 1887.		During dry season of 1887-88.				Total cost up to 31st March 1888.	Year when protection commenced.	Remarks.
		Area actually protected.	Total cost.	Area attempted to be protected.	Fires.	Area actually protected.	Amount expended.			
		ACS.	RS.	ACS.	ACS.	ACS.	RS.	RS.		
Nilgiris—*cont.*	Ootacamund .. .. Fairlawns	..	..	89	..	89	32	32		Ordinary staff.
	Ootacamund .. .. Crurmund	..	..	421	..	421	10	10		Ordinary staff.
	Ootacamund .. .. Mukurty	..	..	1,323	..	1,323	7	7		Ordinary staff.
	Ootacamund .. .. Bilikal	..	..	25	..	25	28	28		Specially protected.
	Ootacamund .. .. Dodahalla	..	..	33	..	33	5	5		Ordinary staff.
	Melur .. .. .. Sillahalla	..	..	192	..	192	3	3		Ordinary staff.
	Kótagiri .. .. .. Kunjapany	..	..	12	..	12	5	5		Specially protected.
	Coonoor .. .. .. Newman	..	..	70	..	70	18	18		Specially protected.
	Melur .. .. .. Athigarahatty	..	..	34	..	34	6	6		Ordinary staff.
	Melur .. .. .. Vegunthabettu	..	..	239	..	239	6	6		Ordinary staff.
	Melur .. .. .. Kothibenu	..	..	350	..	350	6	6		Ordinary staff.
	Melur .. .. .. Melur ..	..	..	35	..	35	20	20		Ordinary staff.
	Melur .. .. .. Maryland	..	..	79	..	79	6	6		Ordinary staff.
	Melur .. .. .. Bettumund	..	..	256	..	256	32	32		Specially protected.
	Melur .. .. .. Pilloor slopes	..	..	2,332	..	2,332	72	72		Specially protected.
	Kótagiri .. .. .. Madanad	..	..	722	3	719	7	7		Ordinary staff.
	Kótagiri .. .. .. Vagapani	..	..	2,648	15	2,633	6	6		Ordinary staff.
	Kótagiri .. .. .. Devad	..	..	2,072	8	2,064	10	10	1887	Ordinary staff.
	Kótagiri .. .. .. Kengarai	..	..	..	..	..	4	4		Ordinary staff.
	Kótagiri .. .. .. Konakarai	..	..	1,863	20	1,843	7	7		Ordinary staff.
	Kótagiri .. .. .. Guernsey	..	..	13	..	13	15	15		Ordinary staff.
	Kótagiri .. .. .. St. Catherine's fall	..	..	123	..	123	4	4		Ordinary staff.
	Kótagiri .. .. .. Kulloor	..	..	388	..	388	4	4		Ordinary staff.
	Kótagiri .. .. .. Ittakul	..	..	21	..	21	8	8		Ordinary staff.
	Kótagiri .. .. .. Kuttada	..	..	29	..	29	8	8		Ordinary staff.
	Kótagiri .. .. .. Sham rock	..	..	43	..	43	4	4		Ordinary staff.
	Kótagiri .. .. .. Mavada	..	..	211	..	211	4	4		Ordinary staff.
	Kótagiri .. .. .. Deepdale	..	..	361	..	361	4	4		Ordinary staff.
	Kótagiri .. .. .. Kunnavara addition	..	..	97	..	97	4	4		Ordinary staff.
	Kótagiri .. .. .. Dodakaru	..	..	62	..	62	4	4		Ordinary staff.
	Kótagiri .. .. .. Nedugula	..	..	89	..	89	4	4		Ordinary staff.
	Kótagiri .. .. .. Chinnattee	..	..	51	..	51	4	4		Ordinary staff.
	Kótagiri .. .. .. Uppatti	..	..	53	..	53	4	4		Ordinary staff.
	Kótagiri .. .. .. Sundatti	..	..	124	..	124	4	4		Ordinary staff.
	Kótagiri .. .. .. Gundakal	..	..	562	5	557	4	4		Ordinary staff.
	Kótagiri .. .. .. Neduhatty	..	..	509	4	505	4	4		Ordinary staff.
	Total ..	136,234	8,133	178,525	2,687	175,838	2,566	10,699		
	ABSTRACT.									
	Total .. Specially protected	301,282	34,073	391,327	45,022	346,305	12,060	46,133		
	Total .. Ordinary staff	351,528	9,176	453,068	19,483	433,585	2,389	11,565		
	Grand Total ..	652,810	43,249	844,395	64,505	779,890	14,449	57,698		

Annual Form No. 63.

Forest Department, Madras, Northern Circle.

Prosecutions for breaches of Forest Rules during 1887-88.

District.	Cases pending from 1886-87.	New Cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of year.
		Injury to forest by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.		
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.	
Ganjam ..	18	5	87	..	2	94	112	66	268	27	132	93	400	19
Vizagapatam.	8	1	206	3	6	216	224	149	232	59	196	208	428	16
Godâvari ..	5	..	82	..	46	128	133	83	159	39	120	122	279	11
Kistna ..	26	5	170	3	52	230	256	169	286	67	128	236	414	20
Nellore ..	12	2	45	2	2	51	63	28	123	11	73	39	196	24
Cuddapah ..	11	5	184	39	2	230	241	201	617	29	108	230	725	11
Kurnool ..	3	..	104	1	19	124	127	85	204	41	102	126	306	1
Bellary ..	4	1	61	10	..	72	76	40	112	30	82	70	194	6
Anantapur ..	12	5	43	15	12	75	87	47	75	27	92	74	167	13
Nilgiris ..	4	3	12	..	14	29	33	20	46	9	22	29	68	4
Total ..	103	27	994	73	155	1,249	1,352	888	2,122	330	1,055	1,227	3,177	125

Cases compounded under section 55 of the Madras Forest Act.

														Amount for which cases were compounded.
														Rs.
Ganjam ..	..	..	3	..	..	3	3	3	3	..	..	3	3	11
Kistna ..	..	..	82	..	19	101	101	101	108	..	..	101	108	281
Nellore ..	..	..	19	..	1	20	20	20	194	..	..	20	194	139
Cuddapah ..	..	..	40	3	7	50	50	50	243	..	..	50	243	463
Kurnool ..	..	..	8	..	2	10	10	9	29	1	3	10	32	130
Bellary ..	..	..	4	..	..	4	4	4	10	..	..	4	10	24
Anantapur ..	..	..	12	3	..	15	15	15	59	..	..	15	59	72
Nilgiris ..	..	..	1	..	2	3	3	3	6	..	..	3	6	28
Total ..	..	..	169	6	31	206	206	205	652	1	3	206	655	1,148
														Cases pending at close of year.
Grand Total ..	103	27	1,163	79	186	1,455	1,558	1,093	2,774	340	1,058	1,433	3,832	125

ANNUAL FORM No. 64.

Forest Department, Madras, Northern Circle.

Summary of revenue of the different districts, 1887-88.

Budget heads, receipts.	Direction.	Ganjam.	Vizagapatam.	Godávari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nilgiris.	Total.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I.—Timber and other produce removed from the forests by Government Agency—												
(a) Timber	..	4,427	..	92	64	416	29,769	..	921	123	1,321	37,133
(b) Firewood and charcoal	..	61	..	..	102	32,655	7	1,004	1,743	3	21,942	57,517
(c) Bamboos	..	2	..	..	..	..	255	..	2,108	..	..	2,365
(d) Sandalwood	..	..	..	..	..	..	..	..	..	..	5,804	5,804
(e) Grass and other minor produce	..	8	..	..	3	2,607	1,258	56	47	439	502	4,920
II.—Timber and other produce removed from the forests by consumers or purchasers—												
(a) Timber	..	125	1,163	31,974	18,504	6,443	18,218	35,397	3,077	2,253	2,717	1,19,871
(b) Firewood and charcoal	..	11,057	2,513	6,015	7,702	2,869	46,584	15,400	4,321	1,268	3,534	1,01,263
(c) Bamboos	..	3,533	1,518	11,497	2,000	11	6,411	16,885	30	429	2,056	44,370
(d) Grazing and fodder grass	..	..	..	947	38,711	12,784	1,227	4,883	403	16	797	59,773
(e) Other minor produce	..	669	85	12,832	9,607	22,100	39,792	3,044	15,774	14,656	168	1,18,627
III.—Confiscated drift and waif wood	..	155	22	6,740	327	61	847	1,000	124	45	7	9,328
IV.—Revenue from forests not managed by Government	..	14	..	..	..	..	..	..	..	..	..	14
V.—Miscellaneous—												
(a) Fines and forfeitures	..	..	58	20	30	..	200	1	..	..	25	334
(b) Refunds	26	5	1	154	63	7	1	172	..	..	19	448
(c) Other sources	1	23	29	52	552	337	633	310	312	523	184	2,956
Total, Receipts	27	20,079	5,339	70,323	77,665	80,290	1,45,202	78,157	28,860	19,655	39,076	5,64,723

MADRAS,
5th July 1888.

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 64.

Forest Department, Madras, Northern Circle.

Summary of expenditure of the different districts, 1887-88.

Budget heads.	Direction.	Ganjam.	Vizagapatam.	Godâvari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nilgiris.	Total.
A.—Conservancy and Works.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
I.—Timber and other produce removed from the forests by Government Agency—												
(*a*) Timber	..	6,469	..	211	4	407	16,258	..	103	4	790	24,246
(*b*) Firewood and charcoal	..	194	..	..	35	24,232	5	686	1,765	..	12,648	39,565
(*c*) Bamboos	..	383	..	..	..	..	257	..	578	..	..	1,218
(*d*) Sandalwood	..	..	..	..	..	..	..	..	..	..	3,067	3,067
(*e*) Grass and other minor produce	..	13	..	..	3	1,616	908	32	17	183	284	3,056
II.—Timber and other produce removed from the forests by consumers or purchasers	..	2,458	836	5,124	2,301	229	5,517	6,134	8	182	1,373	24,162
III.—Confiscated drift and waif wood	..	786	..	818	21	..	55	115	..	3	..	1,800
IV.—Revenue from forests not managed by Government	..	24	..	..	..	..	..	..	..	..	..	24
V.—Rent of leased forests, and payments to shareholders in forests managed by Government	..	..	..	..	..	..	..	..	10,000	..	3,500	13,500
VI.—Live stock, stores, tools and plant—												
(*a*) Purchase of cattle	..	..	..	..	..	..	..	..	..	..	..	..
(*b*) Feed and keep of cattle	..	7	..	..	..	..	..	..	..	..	1,329	1,336
(*c*) Stores, tools and plant	52	296	..	1,665	751	146	342	119	24	..	232	3,627
VII.—Communications and buildings—												
(*a*) Roads and bridges	..	1,091	..	735	124	..	2,520	..	207	..	2,202	6,879
(*b*) Buildings	..	3,751	..	450	100	94	2,069	7,128	385	51	576	14,604
(*c*) Other works	..	..	..	..	12	797	..	..	..	50	24	883
VIII.—Demarcation, improvement and extension of forests—												
(*a*) Demarcation	..	6,535	14	2,322	4,827	3,798	5,650	828	877	403	1,971	27,225
(*b*) Compensation for land and rights	..	..	..	448	2,000	1,283	4,326	140	296	77	80	8,650
(*c*) Surveys and working plans	190	656	..	215	51	240	..	..	..	..	33	1,385
(*d*) Plantations	7	802	390	84	3,062	4,618	2,452	236	229	420	7,913	20,213
(*e*) Protection from fire	..	1,622	..	98	804	376	4,334	275	3,140	1,234	2,566	14,449
(*f*) Other works	..	157	..	..	1,285	29	1,052	..	278	..	2,512	5,313
IX.—Miscellaneous—												
(*a*) Refunds	..	..	2	2	323	428	112	39	70	67	..	1,043
(*b*) Law charges	..	..	..	..	1	606	275	179	..	9	..	1,070
(*c*) Other charges	111	27	14	4	93	99	44	292	1	7	2	694
Total A.—Conservancy and works	360	25,273	1,256	12,176	15,797	38,998	46,176	16,203	17,978	2,690	41,102	2,18,009

MADRAS,
5th July 1888.

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

ANNUAL FORM No. 64.

Forest Department, Madras, Northern Circle.

Summary of expenditure of the different districts, 1887-88.

Budget heads.	Direction.	Ganjam.	Vizagapatam.	Godávari.	Kistna.	Nellore.	Cuddapah.	Kurnool.	Bellary.	Anantapur.	Nilgiris.	Total.
B.—"*Establishments.*"	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.	RS.
Brought forward, Total A. "Conservancy and Works"	360	25,273	1,256	12,176	15,797	38,998	46,176	16,203	17,978	2,690	41,102	2,18,009
I.—Salaries—												
(*a*) Conservators	12,500	..	..	..	..	..	..	..	..	..	..	12,500
(*b*) Superior officers	16,091	3,058	1,910	5,280	6,029	7,410	9,396	11,929	4,284	1,517	8,485	75,389
(*c*) Subordinate forest and depôt establishments	2,930	5,946	2,224	5,441	7,941	5,906	11,099	5,052	4,499	5,969	7,243	64,250
(*d*) Office establishments	13,197	2,110	698	1,243	1,732	1,996	2,425	1,283	958	1,195	2,033	28,870
(*e*) Deputation and special allowances.	..	..	..	..	..	..	..	..	..	..	..	..
II.—Travelling allowances—												
(*a*) Conservators	3,306	..	..	..	..	..	..	..	..	..	..	3,306
(*b*) Superior officers	3,511	647	502	1,440	1,786	2,024	1,691	3,120	1,531	228	1,807	18,287
(*c*) Subordinate forest and depôt establishments	906	1,992	666	1,751	2,184	1,269	2,897	1,419	822	1,529	1,965	17,400
(*d*) Office establishments	2,132	492	150	178	506	262	328	210	138	324	61	4,781
III.—Contingencies—												
(*a*) Stationery	23	..	..	4	1	36	..	3	..	..	..	67
(*b*) Carriage of tents and records ..	579	187	15	87	176	130	84	92	54	69	2	1,475
(*c*) Rents, rates and taxes	24	43	..	85	60	50	35	..	160	23	417	897
(*d*) Pay of police guards	..	..	..	..	..	..	..	..	..	..	..	..
(*e*) Official postage	759	199	91	260	322	308	352	388	122	158	114	3,073
(*f*) Sundries	1,771	168	175	331	432	568	587	304	295	328	531	5,490
Total B. "Establishments" ..	57,729	14,842	6,431	16,100	21,169	19,959	28,894	23,800	12,863	11,340	22,658	2,35,785
Grand Total of expenditure ..	58,089	40,115	7,687	28,276	36,966	58,957	75,070	40,003	30,841	14,030	63,760	4,53,794

MADRAS,
5th July 1888.

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

Annual Form No. 65.

Forest Department, Madras, Northern Circle.

Outstandings and Liabilities on account of Contractors and Disbursers for 1887-88.

District.	Department debtor.			Department creditor.			Balance due		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To Department (outstandings).	By Department (liabilities).	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Conservator's office	..	4,183 12 10	4,183 12 10	42 6 10	4,335 1 3	4,377 8 1	193 11 3	..	
Two-fifths of Examiner's office	..	465 11 9	465 11 9	0 6 6	489 7 7	489 14 1	24 2 4	..	
Forest Settlement-officer, Nellore, &c. ..	..	1,087 5 8	1,087 5 8	20 0 0	1,070 0 0	1,090 0 0	2 10 4	..	
Do. do. Kurnool, &c. ..	..	..	..	..	..	..	..	..	
Forest School, Dehra Dun	..	3,470 12 8	3,470 12 8	63 0 0	3,579 1 5	3,642 1 5	171 4 9	..	
Ganjam	..	32,432 13 5	32,432 13 5	2,627 8 3	33,471 2 10	36,098 11 1	3,665 13 8	..	
Vizagapatam	..	4,712 0 8	4,712 0 8	399 5 9	4,342 2 1	4,741 7 10	29 7 2	..	
Godávari	..	17,466 6 5	17,466 6 5	958 6 11	18,437 2 5	19,395 9 4	1,929 2 11	..	
Kistna	..	26,656 10 3	26,656 10 3	1,846 1 1	25,996 13 2	27,842 14 3	1,186 4 0	..	
Nellore	..	48,519 11 6	48,519 11 6	4,896 13 11	71,665 7 8	76,562 5 7	* 28,042 10 1	..	* Rs. 27,000 since adjusted in 1888-89.
Cuddapah	..	47,533 12 10	47,533 12 10	564 15 11	47,240 10 9	47,805 10 8	271 13 10	..	
Kurnool	..	20,516 4 3	20,516 4 3	1,668 13 1	20,961 14 0	22,630 11 1	2,114 6 10	..	
Bellary	..	13,473 12 0	13,473 12 0	438 14 5	13,261 11 11	13,700 10 4	226 14 4	..	
Anantapur	..	8,000 7 9	8,000 7 9	149 10 4	8,079 5 4	8,228 15 8	228 7 11	..	
Nilgiris	..	15,007 10 0	15,007 10 0	701 2 0	15,900 11 8	16,601 13 8	1,594 3 8	..	
Total ..	..	2,43,527 4 0	2,43,527 4 0	14,377 9 0	2,68,830 12 1	2,83,208 5 1	39,681 1 1	..	

Madras,
7th July 1888.

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

Annual Form No. 66.

Forest Department, Madras, Northern Circle.

Revenue received and outstandings on account of revenue during 1887-88.

District.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realized during year.	Balance due to the department at end of year.
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
Direction	Timber and other produce, &c.	..	27 7 9	27 7 9	27 7 9	..
Ganjam	Do. ..	0 11 7	21,730 7 1	21,731 2 8	20,079 11 4	1,651 7 4
Vizagapatam ..	Do. ..	..	5,388 11 3	5,388 11 3	5,388 11 3	..
Godávari	Do. ..	..	70,323 3 6	70,323 3 6	70,323 3 6	..
Kistna	Do. ..	..	79,410 10 8	79,410 10 8	77,664 10 7	1,746 0 1
Nellore	Do. ..	3,587 11 10	76,777 15 9	80,365 11 7	80,290 1 7	75 10 0
Cuddapah	Do. ..	..	1,45,221 0 7	1,45,221 0 7	1,45,202 4 7	18 12 0
Kurnool	Do. ..	..	78,156 13 7	78,156 13 7	78,156 13 7	..
Bellary	Do. ..	2 4 4	28,859 6 9	28,861 11 1	28,859 7 1	2 4 0
Anantapur	Do. ..	..	19,655 2 1	19,655 2 1	19,655 2 1	..
Nilgiris	Do. ..	1,281 15 5	38,031 10 11	39,313 10 4	39,075 6 5	238 3 11
	Total ..	4,872 11 2	5,63,582 9 11	5,68,455 5 1	5,64,722 15 9	3,732 5 4

Annual Form No. 67.

Forest Department, Madras, Northern Circle.

Financial results of the year 1887-88.

District.	Timber and other produce removed from the Forests by Government Agency.		Other Revenue.		Formation, protection and improvement of Forests.	Total.	
	Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Ganjam	4,498	18,240	15,584	7,041	20,643	20,082	45,924
Vizagapatam	..	4,882	5,391	3,276	5,337	5,391	13,495
Godávari	92	12,035	70,234	9,499	12,551	70,326	34,085
Kistna	169	10,819	77,499	8,203	23,753	77,668	42,775
Nellore	35,678	36,741	44,615	5,375	22,650	80,293	64,766
Cuddapah	31,289	32,652	1,13,916	13,862	34,365	1,45,205	80,879
Kurnool	1,060	12,547	77,100	15,847	17,418	78,160	45,812
Bellary	4,819	9,918	24,043	8,735	17,997	28,862	36,650
Anantapur	565	7,032	19,092	3,633	9,174	19,657	19,839
Nilgiris	29,569	33,209	9,510	7,059	29,301	39,079	69,569
Total ..	1,07,739	1,78,075	4,56,984	82,530	1,93,189	5,64,723	4,53,794

Madras,
10th July 1888.

(Signed) C. G. DOUGLAS,
Examiner of Forest Accounts.

Annual Form No. 68.

Forest Department, Madras, Northern Circle.

Trees felled by Government Agency during the year 1887-88.

(Selection Fellings.)

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Number.	Total.	Balance at end of the year.	Remarks.
Ganjam	Gayagonda range (late Kukkuluba).	Sál	37	402	439	Converted into logs	399	399	40	Outturn 447 logs.
		Sajo	5	2	7	Do. do.	2	2	5	Do. 2 ,,
		Dhau	8	..	8	....	..	..	8	
		Miscellaneous	15	6	21	Converted into logs	6	6	15	Do. 13 ,,
		Bamboos	..	10,640	10,640	....	10,640	10,640	..	
	Chokapad range (late Mojjogodo).	Sál	..	818	818	Converted into logs	165	818	..	Do. 426 ,,
						Do. into poles	53			
						Do. into rafters ..	600			
	Bodoborosingi range (late Suradá).	Satin	..	42	42	Do. into logs	42	42	..	Do. 42 ,,
		Miscellaneous	..	19	19	Do. do.	19	19	..	Do. 19 ,,
		Bamboos	..	5,310	5,310	....	5,310	5,310	..	
		Total, Ganjam ..	65	17,239	17,304	....	17,236	17,236	68	
Godávari	Wuddagudiem range ..	Nallamaddi	144	..	144	Converted into logs	16	16	128	Outturn 40 logs
		Chiriman	14	..	14	Do. do.	8	8	6	Do. 13 ,,
		Konda tangedu (Ironwood) ..	184	16	200	Do. do.	46	46	154	Do. 96 ,,
		Miscellaneous	42	..	42	Do. do.	3	3	39	Do. 5 ,,
		Total, Godávari ..	384	16	400	....	73	73	327	
Kistna	Bandar range	Casuarina	..	30	30	Converted into logs	30	30	..	
		Total, Kistna ..	..	30	30	....	30	30	..	

It is explained by the Collector that the number of species as given under the opening balance is correct and that given under the closing balance of 1886-87 was found subsequently wrong.

Trees felled by Government Agency during the year 1887-88—*cont.*.

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Disposed of during the year: Number.	Disposed of during the year: Total.	Balance at end of the year.	Remarks.
Nellore	Varani plantation	Casuarina	..	47	47	Converted into poles	47	47	..	Outturn 200 poles.
		Total, Nellore ..	..	47	47	....	47	47	..	
Cuddapah	Kódúr range	Bamboos	..	12,184	12,184	Sold	12,184	12,184	..	
		Total, Cuddapah ..	..	12,184	12,184	....	12,184	12,184	..	
Anantapur ..	Gooty range	Palmyra	..	13	13	Sold	10	13	..	
						Converted into demarcation posts	3			
	Muchukota range	Do.	..	5	5	Sold	5	5	..	
		Total, Anantapur ..	..	18	18	....	18	18	..	
Nilgiris ..	Mudumalai range (Tippacadu and Benne).	Teak	..	222	222	Converted into poles and logs.	222	222	..	Outturn 324 poles, 14 logs.
		Blackwood	..	25	25	Do. do. ..	25	25	..	Outturn 2 logs, 23 poles.
		Vengai	..	28	28	Do. do. ..	28	28	..	Outturn 17 poles, 11 logs.
		Mutti	..	58	58	Do. do. ..	58	58	..	Outturn 122 poles, 13 logs.
		Miscellaneous	..	136	136	Do. do. ..	136	136	..	Outturn 3 logs, 202 poles.
	Ootacamund range—	Eucalyptus (Blue gum) ..	..	517	517	Do. fuel, &c. ..	517	517	..	Outturn 214 tons.
	Baikie reserve	Do.	..	2,855	2,855	Do. do. ..	2,855	2,855	..	Do. 1,614 ,,
	Aramby	Do.	..	1,540	1,540	Do. do. ..	1,540	1,540	..	Do. 678 ,,
	Governor's shola	Do.	..	758	758	Do. do. ..	758	758	..	Do. 236 ,,
	Cairn hill	Do.	..	638	638	Do. do. ..	638	638	..	Do. 176 ,,
	Ulnad reserve	Do. and acacia ..	..							
	Coonoor range—									
	Coonoor peak reserve ..	Do.	..	7,333	7,333	Do. do. ..	7,333	7,333	..	Do. 3,006 ,, and 1,929 drag poles.

Trees felled by Government Agency during the year 1887-88—*cont.*

District.	Range, Forest or Working Circle.	Description of Trees.	Number of Trees: On hand at commencement of the year.	Felled during the year.	Total.	Disposed of during the year: How disposed of.	Disposed of during the year: Number.	Disposed of during the year: Total.	Balance at end of the year.	Remarks.
Nilgiris—*cont.*	Coonoor range—*cont.*									
	Bleakhouse reserve ..	Eucalyptus	..	493	493	Converted into fuel, &c. ..	493	493	..	Outturn 91 tons and 380 drag poles.
		Acacia	..	128	128	Do. do. ..	128	128	..	Do. 41 tons.
		Do.	..	120	120	Do. do. ..	120	120	..	Do. 146 ,,
	Bandyshola do. ..	Acacia and blue gum ..	..	84	84	Do. do. ..	84	84	..	Do. fuel 81 tons, planks 51 and rafters 176.
	Lamb's rock reserve ..	Sholawood	..	3	3	Do. do. ..	3	3	..	Do. 6 tons.
	Kullar do. ..	Do.	..	480	480	Do. do. ..	480	480	..	Do. 456 ,,
		Total, Nilgiris ..	..	15,418	15,418	....	15,418	15,418	..	
	Abstract	Teak	..	222	222	....	222	222	..	
		Sál	37	1,220	1,257	....	1,217	1,217	40	
		Blackwood	..	25	25	....	25	25	..	
		Satinwood	..	42	42	....	42	42	..	
		Ironwood	184	16	200	....	46	46	154	
		Chiriman	22	..	22	....	8	8	14	
		Maddi	149	60	209	....	76	76	133	
		Vengai	..	28	28	....	28	28	..	
		Casuarina	..	77	77	....	77	77	..	
		Palmyra	..	18	18	....	18	18	..	
		Eucalyptus	..	13,857	13,857	....	13,857	13,857	..	
		Acacia	..	609	609	....	609	609	..	
		Miscellaneous	57	644	701	....	647	647	54	
		Bamboos	..	28,134	28,134	....	28,134	28,134	..	
		Total ..	449	44,952	45,401	....	45,006	45,006	395	

Annual Form No. 69.

Forest Department, Madras, Northern Circle.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88.

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Ganjam.	Chokapad Range (late Mojagodo.)	Sál logs ..	2,233	30,858	342	2,124	2,575	32,982	Sold to Harden and Co.	209	2,342	1,660	26,201	
									Taken to Russellkondah depôt.	540	3,119			
									Taken to Gopálpur depôt.	36	544			
									Used departmentally.	130	776			
		Demarcation sleepers.	106	141	2,190	1,540	2,296	1,681	Do. ..	838	589	1,458	1,092	For bungalow work.
		Rafters	..	..	600	630	600	630	Do. ..	600	630	..	..	Do.
		Piasál logs.	..	..	25	247	25	247	Taken to Russellkondah depôt.	4	35	..	..	
									Used departmentally.	21	212			
		Sajo ,,	..	..	36	478	36	478	Taken to Russellkondah depôt.	36	478	..	..	
		Dhau ,,	..	..	2	20	2	20	Do. ..	2	20	..	..	
		Miscellaneous ,,	..	..	85	340	85	340	Do. ..	69	276	16	64	
	Gayagonda Range (late Kukkálubá)	Sál logs and poles.	370	2,412	804	9,673	1,174	12,085	Taken to Russellkondah depôt.	323	4,879	215	1,964	
									Taken to Gopálpur depôt.	14	222			
									Converted into sleepers.	341	3,347			Converted into 472 sleepers.
									Used departmentally (demarcation.)	281	1,573			
		Sál sleepers' ..	..	..	472	1,038	472	1,038	Taken to depôt.	472	1,038	..	..	
		Demarcation posts.	..	..	3,088	2,171	3,088	2,171	.. ..	..	..	3,088	2,171	
		Piasál	1	11	..	..	1	11	Less on measurement.	..	4	1	7	
		Sajo	2	19	2	48	4	67	Do. ..	..	7	4	60	
		Ebony	..	..	7	76	7	76	Taken to Russell kondah depôt.	3	52	4	24	
		Miscellaneous ..	4	36	13	299	17	335	.. ..	..	..	17	335	

Note.—1 Ton = 50 C. ft. Timber or fuel.
1 ,, = 75 ,, Bamboos.
1 ,, = 90 Maunds of 25 lb. each.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Ganjam—*cont.*	Bodoborosingi (late Suradá range).	Sál logs ..	..	..	1,501	18,000	1,501	18,000	Used departmentally.	3	22	1,472	17,619	Kharigunda bungalow work.
									Taken to depôt.	26	359			
		Satinwood ..	..	..	42	475	42	475	Taken to depôt.	35	396	7	79	
		Sajo	22	411	..	..	22	411	..	..	..	22	411	
		Miscellaneous ..	..	..	15	154	15	154	Taken to depôt.	11	118	4	36	
	Berhampore.	Sál logs ..	..	..	463	3,975	463	3,975	Taken to Berhampore depôt.	386	3,312	77	663	
		Sleepers ..	..	..	208	624	208	624	Do. ..	204	612	4	12	
		Piasál logs ..	..	..	7	82	7	82	Do. ..	4	52	3	30	
		Blackwood ..	..	..	1	3	1	3	Do. ..	1	3	..	..	
		Miscellaneous ..	..	..	19	150	19	150	Do. ..	18	144	..	..	
									Sold	1	6	..	..	
		Total, Timber ..	2,738	33,858 or 677¾ Tons.	9,922	42,147 or 842¾ Tons.	12,660	76,035 or 1,520½ Tons.	..	4,608	25,267 or 505¼	8,052	50,768 or 1,015¼ Tons.	
	Gayagonda range.	Fuel	..	..	Tons 211	..	Tons 211	..	Destroyed by fire.	Tons 181	..	Tons 30	..	
	Bodoborosingi range.	Do.	Tons 514	..	..	..	„ 514	..	Sold	„ 247½	..	266½	..	
	Kurcholy .	Do.	..	..	„ 10	..	„ 10	..	Sold	„ 10	..	..	..	
		Total, Fuel ..	Tons 514	..	Tons 221	..	Tons 735	..	..	Tons 438½	..	Tons 296½	..	
	Chokapad ..	Bamboos ..	..	..	110	Tons 1½	110	Tons 1½	Taken to Russellkondah depôt.	110	Tons 1½	..	..	
		Total, Bamboos.	..	..	110	Tons 1½	110	Tons 1½	..	110	Tons 1½	..	..	
	Berhampore..	Tamarind ..	..	..	Mds. 22	Ton ¼	Mds. 22	Ton ¼	Sold	Mds. 22	Ton ¼	..	..	
		Total, Minor produce.	..	..	Mds. 22	Ton ¼	Mds. 22	Ton ¼	Sold	Mds. 22	Ton ¼	..	..	
Godávari.	Rékapalle ..	Ironwood ..	..	..	98	1,085	98	1,085	Sold to Public Works Department.	10	125	86	931	
									Taken to Madras.	2	29			

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Godávari.	Rékapalle..	Nallamaddi ..	..	..	40	422	40	422	..	..	..	40	422	
		Chiriman ..	..	..	13	176	13	176	..	..	..	13	176	
		Miscellaneous ..	..	..	11	114	11	114	Taken to Madras.	6	57	5	57	
		Total, Timber ..	..	..	162	1,797	162	1,797	..	18	211	144	1,586	
			..	..	..	or Tons 36	..	or Tons 36	..	..	or Tons 4	..	or Tons 32	
		Fuel ..	Tons 55	..	..	..	Tons 55	..	Washed away by flood.	Tons 48	..	Tons 7	..	
		Total, Fuel ..	Tons 55	..	..	..	Tons 55	..	..	Tons 48	..	Tons 7	..	
	Godávari River.	Teak	..	..	1,798	7,249	1,798	7,249	Sold	1,798	7,249	..	..	
		Miscellaneous ..	..	..	1,751	12,329	1,751	12,329	Do.	1,751	12,329	..	..	
		Boat	..	..	1	*1,080	1	*1,080	Do.	1	*1,080	..	..	
		Total, Timber ..	..	..	3,550	19,578	3,550	19,578	..	3,550	19,578	..	..	
			..	..	..	or Tons 392	..	or Tons 392	..	..	or Tons 392	..	..	
		Fuel	..	..	Tons 150	..	Tons 150	..	Sold	Tons 150	..	..	..	Driftwood.
		Total, Fuel ..	..	..	Tons 150	..	Tons 150	..	..	Tons 150	..	..	..	
		Bamboos ..	..	..	6,330	or Tons 84	6,330	or Tons 84	Sold	6,330	or Tons 84	..	..	
		Total, Bamboos.	..	..	6,330	or Tons 84	6,330	or Tons 84	..	6,330	or Tons 84	..	..	
	Bezváda ..	Tummapoles ..	118	118	1	1	119	119	Sold	14	14	105	105	
	Palnád ..	Margosa ..	..	..	719	200	719	200	Do.	719	200	..	..	
		Casuarina sticks.	..	..	..	20	..	20	Do.	..	20	..	..	
	Bápatla and Krósúr.	Miscellaneous Timber.	..	..	..	240	..	240	Do.	..	240	..	..	
	Bandar ..	Casuarina ..	..	..	30	30	30	30	Do.	30	30	..	..	
		Total, Timber ..	118	118	750	491	868	609	..	763	504	105	105	
			..	or Tons 2	..	or Tons 10	..	or Tons 12	..		or Tons 10	..	or Tons 2	
Kistna.	Bezváda ..	Tumma ..	Tons 18	..	Tons 29	..	Tons 47	..	Sold	Tons 36	..	..	..	
	Bápatla ..	Firewood ..	..	..	,, 19	..	,, 19	..	Taken to depôt.	,, 11	..			
									Sold	,, 19	..			
		Total, Fuel ..	Tons 18	..	Tons 48	..	Tons 66	..	..	Tons 66	..	..	..	
	Palnád ..	Soapnuts ..	..	..	Mds. 4	..	Mds. 4	..	Sold	Mds. 4	..	..	..	
		Total, Minor produce.	..	..	Mds. 4	..	Mds. 4	..	..	Mds. 4	..	..	..	

*Excluded in the total.

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nellore.	Sríharikót ..	Stakes and pegs	..	..	24,000	557	24,000	557	Sold to Salt Department.	24,000	557	..	..	
		Palmyra trees ..	..	..	40	600	40	600	Used departmentally.	40	600	..	..	
		Miscellaneous poles.	..	..	959	106	959	106	Do.	959	106	..	..	
	Plantation ..	Casuarina poles.	..	..	200	216	200	216	Sold to Public Works Department.	200	216	..	..	
		Total, Timber ..	..	..	25,199	1,479 or 30 Ts.	25,199	1,479 or 30 Ts.	..	25,199	1,479 or 30 Ts.	..	..	
	Sríharikót ..	Junglewood ..	..	..	2,066,745	Ts. 2,697	2,066,745	Ts. 2,697	Taken to depôt.	1,820,685	Ts. 2,444	246,060	Ts. 253	
		Sulli bundles ..	..	..	25,739	,, 286	25,739	,, 286	Do. ..	7,840	,, 87	17,899	,, 199	
	Plantation S	Casuarina ..	..	Ts. 1,006	.. ..	,, 3,909	..	,, 4,915	Sold	..	,, 207	..	,, 4,708	
	Do. N	Do. ..	..	..	..	,, 427	..	,, 427	Do.	..	,, 31	..	..	
									Taken to depôt.	..	,, 396			
		Do. roots, &c.	..	..	..	,, 40	..	,, 40	Sold	..	,, 40	..	..	
		Total, Fuel ..	..	Ts. 1,006	..	Ts. 7,359	..	Ts. 8,365	..	..	Ts. 3,205	..	Ts. 5,160	
	Sríharikót ..	Nux-Vomica ..	Mds. 306	..	Mds. 165½	..	Mds. 471½	..	Taken to depôt.	Mds. 471½	..	..	..	
		Cheyroot ..	,, 661	..	,, 95	..	,, 756	..	..	..	..	Mds. 756	..	
		Sarsaparilla ..	..	..	,, 224	..	,, 224	..	Taken to depôt.	,, 5	..	,, 219	..	
		Orchella weed ..	..	..	,, 7	..	,, 7	..	..	..	..	,, 7	..	
		Isorara	..	..	,, 27	..	,, 27	..	..	..	..	,, 27	..	
		Visha booddi (sida acuta).	..	..	8	..	,, 8	..	..	..	..	,, 8	..	
		Kukkapala ..	..	..	,, 9	..	,, 9	..	..	..	..	,, 9	..	
		Casuarina seeds.	..	..	,, ½	..	,, ½	..	Sold	,, ½	..	..	..	
		Tangedu bark ..	,, 63	..	..	..	,, 63	..	..	..	..	,, 63	..	
		Rattan	..	..	183 or Mds. 183	Bundles.	183 orMds.183	Bundles.	Taken to depôt.	183 or Mds. 183	Bundles.	..	..	Each bundle weighs about 1 maund estimate.
		Total, Minor produce.	Mds. 1,030 or Ts. 11⅓	..	Mds. 719 or Ts. 8	..	Mds. 1,749 or Ts. 19⅓	..	..	Mds. 660 or Ts. 7⅓	..	Mds. 1,089 or Ts. 12	..	
Cuddapah.	Kódúr ..	Red sander roots, &c.	..	..	Ts. 2,071⅔	99,426	Ts. 2,071⅔	99,426	Taken to depôt.	Ts. 2,071⅔	99,426	..	..	
		Do. poles ..	..	..	No. 401	401	No. 401	401	Sold	No. 237	237	164	164	
		Teak	..	..	,, 3	3	,, 3	3	..	..	..	3	3	
		Miscellaneous ..	..	..	,, 163	403	,, 163	403	Sold	,, 28	28	135	375	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Cuddapah—*cont.*	Rájampet ..	Red sander posts.	..	..	No. 925	925	No. 925	925	Sold	No. 575	575	350	350	
		Miscellaneous ..	..	..	,, 359	359	,, 359	359	Do. ..	,, 79	79	280	280	
	Badvél ..	Red sander posts.	..	..	,, 200	200	,, 200	200	Taken to depôt.	,, 200	200	..	..	
		Miscellaneous ..	..	..	,, 87	87	,, 87	87	Do. ..	,, 87	87	..	..	
	Cuddapah ..	Red sander rafters.	..	..	,, 78	78	,, 78	78	Do. ..	,, 78	78	..	..	
		Miscellaneous ..	..	..	,, 70	70	,, 70	70	Do. ..	,, 70	70	..	..	
	Ráyachóti ..	Red sander poles.	..	..	,, 100	100	,, 100	100	.. ..	..	..	100	100	
	Váyalpád ..	Miscellaneous ..	..	..	,, 2,374	2,374	,, 2,374	2,374	Sold	,, 344	344	2,030	2,030	
		Total, Timber..	..	..	Ts. 2,171⅜	104,426	Ts. 2,171⅜	104,426	..	Ts. 2,105	101,124	No. 3,062 or Ts. 66	3,302	C.-ft. 3302 = 66 tons at 50 c. ft. a ton.
	Kódúr ..	Firewood ..	..	..	Ts. 85	..	Ts. 85	..	.. ..	.. ..	..	Ts. 85	..	
	Rájampet ..	Do. ..	..	..	,, 1¼	..	,, 1¼	..	Taken to depôt.	Tons 1¼	..	.. ..	..	
	Badvél ..	Do. ..	..	..	,, 91¼	..	,, 91¼	..	..	.. ..	..	,, 91¼	..	
		Total, Fuel ..	..	..	Ts. 177½	..	Ts. 177½	..	..	Tons 1¼	..	Ts. 176¼	..	
	Kódúr ..	Bamboos ..	..	..	19,570	..	19,570	..	Sold	19,270	19,270	300	300	
	Rájampet ..	Do. ..	..	..	120	..	120	..	Do.	120	120	..	..	
		Total, Bamboos.	..	..	No. 19,690 or Ts. 394	..	No. 19,690 or Ts. 394	..	..	No. 19,390 or Ts. 388	19,390	No. 300 or Ts. 6	300	
	All ranges..	Gallnuts C ..	Mds. 5,151	..	Mds 1,702	..	Mds. 6,853	..	Taken to depôt.	Mds. 4,280	..	Mds. 96	..	C = Chebula.
									Dryage ..	,, 2,477				
		Do. B ..	..	..	,, 1,150	..	,, 1,150	..	Taken to depôt.	,, 1,150	..	..	..	B = Belerica.
									Do. ..	98				
		Tangedu ..	,, 156	..	,, 98		,, 254	..	Sold	148	..	..	..	
									Dryage ..	8				
	Rájampet, Sidhout and Madanapalle.	Mangoes ..	..	..	No. 11,068 or Mds. 148	..	No. 11,068 or Ms. 148	..	Sold	No. 9,432 or 126 Mds.	..	..	..	75 fruits per maund.
									Taken to depôt.	No. 1,636 or 22 Mds.				
	Madanapalle.	Pomegranates ..	..	..	No. 96 or 2 Mds.	..	No. 96 or 2 Mds.	..	Sold	No. 96 or 2 Mds.	..	..	..	50 do. do.
		Coffee	..	..	Mds. 1¼	..	Mds. 1¼	..	Do.	Mds. 1¼	..	..	..	
		Total, Minor produce.	Mds. 5,307 or Ts. 59	..	Mds. 3,101¼ or Ts. 34½	..	Mds. 8,408¼ or Ts. 93⅜	..	..	Mds. 8,312½ or Ts. 92½	..	Mds. 96 or Ts. 1	..	
Kurnool.	Nandyál ..	Firewood ..	..	..	Ts. 191	..	Ts. 191	..	Sold to Bellary-Kistna State Railway.	Ts. 191	..	..	..	
		Total, Fuel ..	..	..	Ts. 191	..	Ts. 191	..	..	Ts. 191	..	..	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Kurnool. —*cont.*	Nandikótkur.	Gallnuts C ..	Mds. 280	..	..	..	Mds. 280	..	..	..	..	..	Mds. 280	
	Sirvel ..	Do. B ..	,, 190	..	..	..	190	..	..	..	..	..	,, 190	
	Sirvel and Velgode.	Honey	..	..	Mds. 10	..	10	..	Sold	Mds. 10	..	..	..	
		Wax	..	..	,, 2¾	..	2¾	..	Do. ..	,, 2¾	..	..	..	
		Total, Minor produce.	Mds. 470 or Tons 5¼	..	Mds. 12¾	..	Mds. 482¾ or Tons 5¼	..	..	Mds. 12¾	..	..	Mds. 470 or Tons 5¼	
Bellary.	Sandúr ..	Teak poles ..	4	12	691	2,073	695	2,085	Sold	695	2,085	..	..	
		Do. rafters ..	..	..	1,026	2,052	1,026	2,052	Do.	1,026	2,052	..	..	
		Total, Timber..	4	12	1,717	4,125 or Tons 82½	1,721	4,137 or Tons 82½	..	1,721	4,137 or Tons 82½	..	..	
	Western range. Sandúr ..	Firewood ..	..	..	Tons 1,047	..	Ts. 1,047	..	Sold	Tons 365	..	Tons 671	..	
		Do. (Brushwood).	..	..	,, 37	..	,, 37	..	Taken to Hospet.	,, 11	..			
									Sold	,, 37	..	..	..	
		Charcoal ..	Mds. 9	..	..	..	Mds. 9	..	Do.	Mds. 9	..	..	..	
		Brushwood ..	..	..	Tons 2	..	Tons 2	..	Do.	Tons 2	..	..	..	
		Total, Fuel and Charcoal.	Mds. 9	..	Tons 1,086	..	Ts. 1,086	..	..	Tons 415	..	Tons 671	..	
	Sandúr ..	Bamboos (Large)	..	..	212	..	212	..	Sold	212	..	..	..	
		Do. (Small)	..	..	76,166	..	76,166	..	Do.	76,166	..	..	..	
		Total, Bamboos.	..	..	76,378 or 1,018	Tons.	76,378 or 1,018	Tons.	..	76,378 or 1,018	Tons.	..	..	
	Sandúr ..	Gallnuts C ..	Mds. 23	..	..	..	Mds. 23	..	Sold	Mds. 23	..	..	..	
		Tamarind ..	,, 43	..	..	..	,, 43	..	..	..	..	Mds. 43	..	
		Honey ..	Bottles 3	..	Bottles 15 Mds. 2	..	Bottles 18 Mds. 2	..	Sold	Mds. 3	..	..	..	18 bottles = 1 maund estimate.
		Wax	lb. 2	..	Seers 34	..	Seers 34 and lb. 2	..	Do.	34 Seers and 2 lb.	..	..	..	34 seers and 2 lb. = 1 maund.
		Sheakoy ..	..	..	Mds. 10	..	Mds. 10	..	Do.	Mds. 10	..	..	..	
		Gum	Seers 16	..	Seers 40	..	Seers 56 or Mds. 1½	..	Do.	Seers 56 or Mds. 1½	..	..	..	
		Kamila dye ..	lb. 25	..	..	..	lb. 25	..	Taken to depôt.	lb. 20	..	lb. 5	..	
		Total, Minor produce.	Mds. 67⅔ or ⅔ Ton	..	Mds. 15 or ¼ Ton	..	Mds. 82½ or 1 Ton	..	..	Mds. 39½ or ½ Ton	..	Mds. 43 and 5 lb. or ½ Ton	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Anantapur.	Penukonda ..	Teak rafters ..	150	150	..	..	150	150	..	..	..	150	150	
		Palmyra beam..	5	10	..	..	5	10	Used departmentally.	2	4	3	6	
	Hindupur ..	Miscellaneous ..	Tons 5	250	..	..	Tons 5	250	..	..	..	Tons 5	250	
	Gooty ..	Babul beam ..	..	..	2	24	2	24	Taken to depôt	1	12	..	..	
									Sold	1	12			
		Palmyra ..	..	..	9	18	9	18	Used departmentally.	8	16	..	..	
									Taken to depôt	1	2			
	Anantapur ..	Do. reapers ..	..	..	200	300	200	300	Sold	200	300	..	..	
		Do. trees ..	..	..	15	120	15	120	Do.	15	120	..	..	
		Total, Timber..	160	410 or Tons 8	226	462 or Tons 9	386	872 or Tons 17	..	228	466 or Tons 9	158	406 or Tons 8	
	Gooty ..	Firewood ..	..	..	Ton 1	..	Ton 1	..	Sold	Ton 1	..	..	..	
		Total, Fuel ..	..	..	Ton 1	..	Ton 1	..	..	Ton 1	..	..	..	
	All Ranges.	Gum	Mds. 15	..	Mds. 36½	..	Mds. 51½	..	Taken to depôt	Mds. 21½	..	Mds. 8¼	..	
									Sold	,, 21¼				
		Honey ..	,, 2	..	,, 83½	..	,, 85½	..	Taken to depôt	,, 82½	..	,, ¼	..	
									Sold	,, 2				
									Wastage ..	,, ¾				
		Wax	..	..	,, 4¾	..	,, 4¾	..	Taken to depôt	,, 3	..	..	..	
									Sold	,, 1¾				
	Penukonda ..	Gallnuts C ..	,, 20	..	,, 84½	..	,, 104½	..	Do.	,, 28¾	..	..	..	
									Taken to depôt	,, 76¾				
		Tamarind ..	.. ..	..	,, 4½	..	,, 4½	..	Do. do. ..	,, 4½	..	..	..	
	Hindupur ..	Kanuga seeds ..	,, 3¼	..	.. ..	..	,, 3¼	..	Sold	,, 3¼	..	..	..	
	Muchukota ..	Palmyra leaves.	..	..	No. 150 or Mds. 5	..	No. 150 or Mds. 5	..	Do.	No. 150 or Mds. 5	..	..	..	150 Leaves = to 5 Maunds estimate
		Total, Minor produce.	Mds. 40¾ or ½ Ton	..	Mds. 218½ or Tons 2½	..	Mds. 258¾ or Tons 3	..	..	Mds. 250¼ or Tons 3	..	Mds. 8½	..	
Nilgiris.	Benné	Teak ..	40	1,552	14	448	54	2,000	Sold	28	1,000	26	1,000	
		Blackwood ..	3	230	..	..	3	230	..	..	..	3	230	
		Vengai ..	..	..	11	448	11	448	..	..	..	11	448	
		Matti ..	..	..	10	506	10	506	..	..	..	10	506	
	Tippacadu	Teak ..	45	1,033	32	734	77	1,767	Sold	2	46	75	1,721	
		Do. poles ..	2,059	12,354	324	1,944	2,383	14,298	Do.	66	396	2,317	13,902	
		Do. pieces ..	..	1,205	..	..	..	1,205	..	..	..	..	1,205	
		Blackwood logs and poles ..	182	1,507	25	212	207	1,719	..	..	..	207	1,719	
		Vengai ..	167	1,002	9	54	176	1,056	..	..	..	176	1,056	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nilgiris—*cont.*	Ootacamund Range. Tippacadu—*cont.*	Matti	3	84	3	110	6	194	..	..	..	6	194	
		Do. poles ..	..	..	95	570	95	570	..	..	..	95	570	
		Miscellaneous wood.	..	..	3	86	3	86	..	..	..	3	86	
		Miscellaneous poles.	..	..	202	1,212	202	1,212	..	..	..	202	1,212	
	Bandy Shola.	Acacia planks ..	89	65	56	30	145	95	Taken to depôt.	145	95	..	..	
		Do. &c., rafters.	65	65	203	203	268	268	Do.	268	268	..	..	
	Coonoor peak.	Bluegum drag poles.	..	..	3,874	3,874	3,874	3,874	Do. Converted into fuel. Used departmentally.	3,472 400 2	3,874	..	..	
		Bluegum drag posts.	..	..	15	15	15	15	Used departmentally.	15	15	..	..	
	Bleak house..	Bluegum drag poles.	..	..	380	380	380	380	Taken to depôt.	120	120	260	260	
	Lambs rock.	Miscellaneous planks.	..	..	44	27	44	27	Do.	44	27	..	..	
		Miscellaneous rafters.	..	..	59	59	59	59	Do.	59	59	..	..	
	Longwood ..	Drag poles ..	..	..	95	95	95	95	Sold	87	87	8	8	
	Kullar reserve.	Do. ..	287	287	..	..	287	287	..	..	..	287	287	
		Total, Timber..	2,940	19,384 or 388 Ts.	5,454	11,007 or 220 Ts.	8,394	30,391 or 608 Ts.	..	4,708	5,987 or 120 Ts.	3,686	24,404 or 488 Ts.	
	Ootacamund Range. Governor's shola.	Eucalyptus ..	Tons 850	..	Tons 892	..	Ts. 1,742	..	Sold .. .. Taken to depôt. Dryage ..	Tons 582 ,, 138 ,, 72	..	Tons 950	..	
	Cairn hill.	Do. ..	,, 483	..	,, 231	..	,, 714	..	Sold .. .. Taken to depôt. Dryage ..	,, 570 ,, 122 ,, 22	..	..	..	
		Shola wood ..	,, 124	..	..	..	,, 124	..	Sold .. .. Taken to depôt. Dryage ..	,, 96 ,, 19 ,, 9	..	..	..	
	Aramby.	Eucalyptus ..	,, 374	..	,, 1,614	..	,, 1,988	..	Sold .. .. Taken to depôt. Dryage ..	,, 717 ,, 31 ,, 70	..	,, 1,170	..	
		Shola wood ..	,, 64	..	..	..	,, 64	..	Sold	,, 64	..	..	..	
	Ulnad reserve.	Eucalyptus ..	,, 202	..	,, 176	..	,, 378	..	Sold .. .. Taken to depôt. Dryage ...	,, 187 ,, 138 ,, 53	..	..	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nilgiris—*cont.*	Coonoor Range.													
	Coonoor peak.	Eucalyptus ..	Tons 1,360	..	Tons 3,004	..	Ts. 4,364	..	Sold	Tons. 307	..	Tons 2,612	..	
									Taken to Coonoor depôt.	,, 183				
									Taken to Wellington depôt.	,, 998				
									Taken to Charcoal kiln.	,, 4				
									Dryage ..	,, 260				
	Ghât reserve.	Shola wood ..	,, 6	..	,, 97	..	,, 103	..	Taken to Wellington depôt.	,, 15	..	Ton 1	..	
									Taken to Coonoor depôt.	,, 37				
									Sold	,, 36				
									Dryage ..	,, 14				
	Bandy shola.	Eucalyptus ..	,, 20	..	,, 224	..	,, 244	..	Taken to Coonoor depôt.	Ton 1	..	Tons 14	..	
									Taken to Wellington depôt.	Tons 86				
									Sold	,, 16				
									Charcoal kiln ..	,, 127				
		Charcoal ..	,, 5	..	,, 18	..	,, 23	..	Taken to Wellington depôt.	,, 6	..	Ton 1	..	
									Taken to Coonoor depôt.	Ton 1				
									Taken to Ootacamund depôt.	Tons 11				
									Sold	,, 4				
	Longwood.	Do. ..	..	..	Ton ½	..	Ton ½	..	Sold	lbs. 175	..	lbs. 940	..	
	Bleak house.	Bluegum ..	..	..	Tons 91	..	Tons 91	..	Charcoal kiln ..	Tons 11	..	Tons 105	..	
	Lambs Rock. Sims Park. Hulical	Acacia	..	..	,, 41	..	,, 41	..	Sold	,, 16	..			
	Long wood.	Sholawood ..	..	..	,, 267	..	,, 267	..	Taken to Wellington depôt.	,, 8	..	,, 50½	..	
									Taken to Coonoor depôt.	,, 18				
									Sold	,, 178				
									Dryage ..	,, 12½				
	Kullár ..	Do. ..	,, 188	..	,, 456	..	,, 644	..	Sold	,, 89	..	,, 555	..	
		Total, Fuel ..	3,676	..	7,111½	..	10,787½	..	..	5,328½	..	5,459	..	

Statement of Timber and other Produce cut and collected by Government Agency during the year 1887-88—*cont.*

District.	Forest range, Forest or working circle.	Description of Timber or Forest produce.	On hand at commencement of year.		Collected during year.		Total.		Disposed of during year.			Balance at end of year.		Remarks.
			Number.	Cubic feet.	Number.	Cubic feet.	Number.	Cubic feet.	How disposed of.	Number.	Cubic feet.	Number.	Cubic feet.	
Nilgiris—*cont.*	Sigúr ..	Sandalwood roots, &c.	Mds. 125	..	Mds. 1,565	..	Mds. 1,690	..	Sold	Mds. 1,457	..	Mds. 233	..	
		Chips ..	..	..	,, 100	..	,, 100	..	Sold	,, 100	..	..	..	
		Total, Sandalwood.	Mds. 125 or 1¼ Tons	..	Mds. 1,665 or 18½ Tons	..	Mds. 1,790 or 19¾ Ts.	..	..	Mds. 1,557 or 17¼ Tons	..	Mds. 233 or 2½ Tons	..	
	Sigúr ..	Gallnuts, C ..	..	..	Mds. 235	..	Mds. 235	..	..	..	..	Mds. 235	..	
		Shea-koy ..	..	..	,, 90	..	,, 90	..	..	..	..	,, 90	..	
		Vambadum bark.	..	..	,, 80	..	,, 80	..	..	..	..	,, 80	..	
		Coffee	..	..	,, 6½	..	,, 6½	..	Sold	Mds. 2½	..	,, 4	..	
		Deer horns ..	..	..	No. 110	or 3 Mds.	No. 110	or 3 Mds.	..	..	..	No. 110	or 3 Mds.	Estimate.
	All Ranges.	Tamarind ..	..	..	Mds. 2½	..	Mds. 2½	..	..	..	..	Mds. 2½	..	
		Honey	Mds. 64½	..	,, 8	..	,, 72½	..	Sold .. .. / Wastage ..	Mds. 53 / ,, 4½	..	,, 15	..	
		Wax	...	..	,, 4	..	,, 4	..	..	..	..	,, 4	..	
		Total ..	Mds. 64½ or ¾ Ts.	..	Mds. 429 or 4¾ Ts.	..	Mds. 493½ or 5½ Ts.	..	..	Mds. 60 or ½ Ton	..	Mds. 433½ or 5 Ts.	..	

ABSTRACT.

Sál logs and poles.	665	Tons.	676	Tons.	1,341	Tons.	..	412	Tons.	929	Tons.
Teak	325	Do.	290½	Do.	615½	Do.	..	256½	Do.	359	Do.
Red saunders ..	..	..	2,105⅝	Do.	2,105⅝	Do.	..	2,096⅝	Do.	9	Do.
Miscellaneous ..	79	Do.	639	Do.	718	Do.	..	431	Do.	287	Do.
Sleepers, rafters and planks.	5	Do.	83	Do.	88	Do.	..	66	Do.	22	Do.
Total timber ..	1,074	Do.	3,793⅜	Do.	4,867⅛	Do.	..	3,261⅝	Do.	1,606	Do.
Fuel and charcoal.	5,269	Tons.	16,345¼	Tons.	21,614¼	Tons.	..	9,844½	Do.	11,769¾	Tons.
Bamboos ..	..	Do.	1,497½	Do.	1,497½	Do.	..	1,491½	Do.	6	Do.
Sandalwood ..	1¼	Do.	18½	Do.	19¾	Do.	..	17½	Do.	2¼	Do.
Minor produce.	77¾	Do.	50¼	Do.	128	Do.	..	104¼	Do.	23¾	Do.

Annual Form No. 70.

Forest Department, Madras, Northern Circle.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88.

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Ganjam	..	Russell-konda.	Sál logs, poles ..	260	2,752	Mojjagodo ..	540	3,119	1,140	10,969	Converted into sleepers.	*245	3,821	..	..	* 1,024 Sleepers.
						Kukkúlubá ..	323	4,879			Converted into rafters.	69	435	..	..	
						Found in excess.	17	219			Taken to Gopálpur.	810	6,602	..	..	
											Taken to Kariguda.	3	22	..	..	
											Sold	13	89	..	..	
			Sál sleepers ..	490	980	Kukkúlubá ..	472	1,038	1,986	4,101	Do. ..	1,130	2,486	..	..	
						Conversion ..	1,024	2,083			Taken to Gopálpur.	853	1,605	..	..	
											Taken to Kariguda.	3	10	..	..	
			Demarcation posts.	2,038	1,437	Harden and Co.	3,240	2,274	5,278	3,711	Used departmentally.	5,278	3,711	..	..	
			Rafters ..	..	..	Conversion ..	158	176	158	176	Taken to Gopálpur.	158	176	..	..	
			Sajo logs ..	86	1,010	Mojjagodo ..	36	478	122	1,488	Do. do. ..	105	1,206	..	..	
											Sold	17	279	..	..	
											Loss on remeasurement.	..	3	..	..	
			,, planks ..	2	8	..	..	..	2	8	Sold	2	8	..	..	
			Dhau logs ..	65	925	Mojjagodo ..	2	20	67	945	Sold	3	40	..	..	
											Taken to Gopálpur.	64	905	..	..	
			,, planks.	2	8	..	..	..	2	8	Sold	2	8	..	..	
			Ebony logs ..	2	12	Kukkúlubá ..	3	52	5	64	Do. ..	2	15	..	..	
											Taken to Gopálpur.	3	49	..	..	
			Blackwood logs.	2	13	..	..	..	2	13	Sold	2	13	..	..	
			Satinwood ..	2	19	..	..	..	2	19	Taken to Gopálpur.	2	19	..	..	
			,, planks ..	2	8	..	..	..	2	8	Sold	2	8	..	..	
			Piasál logs ..	5	44	Mojjagodo ..	4	35	9	79	Converted into planks.	3	†28	..	..	† 36 planks.
											Taken to Gopálpur.	6	51	..	..	
			,, rafters ..	4	4	..	..	..	4	4	Sold	4	4	..	..	
			,, planks ..	..	..	Conversion ..	36	24	36	24	Do. ..	7	4	..	..	
											Used departmentally.	29	20	..	..	

Note.— 1 Ton = 50 c. ft. Timber or Fuel.
1 ,, = 75 Bamboos.
1 ,, = 90 Maunds of 25 lb. each.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Ganjam—*cont.*	..	Berhampore-*cont.*	Sál rafters ..	..	..	Conversion ..	184	389	184	389	Sold	167	370	..	..	
											Used departmentally.	12	13			
											Taken to Gopálpur.	5	6			
			Piasál	..	..	..	4	52	4	52	Do. ..	4	52	..	..	
			Blackwood ..	..	..	..	1	3	1	3	Do. ..	1	3	..	..	
			Satinwood ..	..	..	Suradá ..	5	56	5	56	Do. ..	5	56	..	..	
			Miscellaneous ..	..	..	Forests ..	18	144	18	144	Do. ..	15	123	..	..	
											Sold	3	21			
			Slabs, &c. ..	..	..	Conversion ..	382	..	382	..	Do.	270	..	..	..	
											Taken to Gopálpur	112				
			Total ..	2	24	..	1,488	5,176	1,490	5,200	..	1,490	5,200	..	..	
		Gopálpur.	Sál logs and poles.	..	..	Berhampore..	191	1,521	1,066	9,109	Converted into sleepers.	302	5,813	648	4,625	* 312 lbs.
						Russellkonda .	810	6,602			Converted into charcoal.	* 13	50			
						Suradá ..	15	220			Used departmentally.	15	63			
						Mojjagodo ..	36	544			Sold	88	558			
						Kukkulubá ..	14	222			..	..	..	..	..	
			Do. sleepers.	..	..	Berhampore..	149	400	1,081	2,163	Sold	929	1,887	150	269	
						Russellkonda.	853	1,605			Used departmentally.	2	7			
						Conversion ..	79	158								
			Do. rafters.	..	..	Berhampore..	5	6	181	203	Do. ..	7	7	174	196	
						Russellkonda.	158	176								
						Conversion ..	18	21								
			Do. scantlings.	..	..	Do. ..	161	2,220	161	2,220	Sold	111	2,069	50	151	
			Satin logs ..	..	..	Berhampore..	5	56	35	382	Found less on remeasurement.	..	6	35	376	
						Suradá ..	27	307								
						Russellkonda.	2	19								
						Found in excess	1	..								
			Ebony	..	..	Russellkonda.	3	49	3	49	Do. ..	..	3	3	46	
			Blackwood ..	..	..	Berhampore..	1	3	1	3	..	..	..	1	3	
			Sajo	..	..	Suradá ..	11	170	139	1,727	Converted into sleepers.	†3	44	136	1,683	† 5 sleepers.
						Russellkonda.	105	1,206								
						Found in excess	23	351								
			Do. Sleepers ..	..	..	Conversion ..	5	17	5	17	Samples sent to Bombay.	3	11	2	6	
			Piasál	..	..	Berhampore..	4	52	10	103	Less on remeasurement.	..	6	10	97	
						Russellkonda.	6	51								
			Dhau	..	..	Do. ..	64	905	64	905	Do. ..	17	250	47	655	
			Miscellaneous ..	..	..	Do. ..	7	80	22	203	Do. ..	2	37	20	166	
						Berhampore..	15	123								
			Sides and slabs, &c.	..	..	Conversion ..	2,937	..	2,937	..	Sold	513	..	1,982	..	
											Used departmentally.	442	..	..	..	
			Total ..	..	..	..	5,705	17,084	5,705	17,084	..	2,447	8,811	3,258	8,273	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88—*cont.*

District	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Ganjam —*cont.*	..	Russell-konda—*cont.*	Miscellaneous logs.	.42	306	Mojjagodo ..	69	276	111	582	Sold	37	236	..	..	
											Taken to Gopálpur.	7	80			
											Used departmentally.	67	266			
			Miscellaneous planks.	31	20	..	..	..	31	20	Sold	31	20	..	..	
			Slabs, sides, &c.	1,687	..	Conversion ..	1,599	..	3,286	..	Do.	3,058	..	..	..	
											Converted into sleepers.	14	..			
											Stolen ..	82	..			
											Used departmentally.	132	..			
			Total ..	4,720	7,546	..	7,523	14,673	12,243	22,219	..	12,243	22,219	..	..	
		Suradá ..	Sál logs ..	5	79	..	26	359	31	438	Taken to Gopálpur.	15	220	16	218	
			,, sleepers ..	2	7	..	..	..	2	7	Do. Kariguda..	2	7	..	..	
			Blackwood logs.	2	15	..	..	..	2	15	Do. ..	2	15	..	..	
			Ebony	3	20	..	..	..	3	20	Do. ..	3	20	..	..	
			Sajo	47	858	..	..	..	47	858	Taken to Gopálpur.	11	170	36	688	
											Do. ..	27	307	3	33	
			Satinwood ..	..	..	..	35	396	35	396	Taken to Berhampore.	5	56			
			Miscellaneous ..	..	..	..	11	118	11	118	Converted into planks.	*4	47	7	71	*74 planks.
			Planks ..	..	..	Conversion ..	74	37	74	37	Taken to Kariguda.	23	11	51	26	
			Total ..	59	979	..	146	910	205	1,889	..	92	853	113	1,036	
		Berhampore.	Sál logs and poles.	2	24	Forests ..	386	3,312	388	3,336	Converted into sleepers.	†182	1,687	..	..	† 304 sleepers.
											Used departmentally.	8	73			
											Taken to Gopálpur.	191	1,521			
											Sold	7	55			
											Do. ..	315	667			
											Converted into rafters.	42	146			
			Sál sleepers ..		..	Conversion ..	304	608	508	1,220	Used departmentally.	2	7	..	..	
						Forests ..	204	612			Taken to Gopálpur.	149	400			

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Ganjam —*cont.*	..	Chondorgiri and Bedigula.	Holondo planks.	693	..	..	..	..	693	..	Used departmentally.	376	..	317	..	
			Total ..	693	..	..	..	..	693	..	..	376	..	317	..	
		Kariguda	Sál logs, &c. ..	7	51	Russellkondah	3	22	10	73	Used departmentally.	10	73	..	..	
			,, poles ..	19	47	..	..	..	19	47	Do.	19	47	..	..	
			,, sleepers ..	..	..	Russellkondah and Surada	5	29	5	29	Do.	5	29	..	..	
			Sajo rafters ..	32	36	..	..	..	32	36	Do.	32	36	..	..	
			Dhau ,, ..	17	79	..	..	..	17	79	Do.	17	79	..	..	
			Holondo planks.	100	50	Suradá ..	23	11	123	61	..	..	..	123	61	
			Blackwood logs.	..	..	Do. ..	2	15	2	15	Used departmentally.	2	15	..	..	
			Ebony logs ..	..	..	Do. ..	3	20	3	20	Do.	3	20	..	..	
			Total ..	175	263	..	36	97	211	360	..	88	299	123	61	
		Madras ..	Dhau logs ..	8	176	..	..	..	8	176	..	..	..	8	176	
			Sajo	8	151	..	..	..	8	151	..	..	..	8	151	
			Satinwood ..	6	86	..	..	..	6	86	..	..	..	6	86	
			Total ..	22	413	..	..	..	22	413	..	..	..	22	413	
			Total, Timber, Ganjam.	5,671	9,225 or Tons 184	..	14,898	37,940 or Tons 759	20 569	47,165 or Tons 943	..	16,736	37,382 or Tons 747	3,833	9,783 or Tons 196	
		Russellkondah.	Fuel	Tons 14	..	..	..	..	Tons 14	..	Stolen	Tons 7	..	Tons 7	..	
			Charcoal ..	..	..	..	lb. 312	..	lb. 312	..	Used departmentally.	lb. 204	..	lb. 108	..	
			Total, Fuel and Charcoal.	Tons 14	..	..	lb. 312	..	Tons 14 or lb. 312	..	..	Tons 7 lb. 204	..	Tons 7 lb. 108	..	
		Do. ..	Bamboos ..	..	..	..	110	Tons 1½	110	Tons 1½	Sold	110	Tons 1½	..	..	
			Total, Bamboos.	..	..	..	110	Tons 1½	110	Tons 1½	..	110	Tons 1½	..	..	
		Suradá ..	Gallnuts B. ..	Mds. 4	..	..	..	..	Mds. 4	..	Sown	Mds. 4	..	..	..	
			,, C. ..	,, 57	..	..	..	..	,, 57	..	..	..	..	Mds. 57	..	
			Nux-vomica ..	,, 34	..	..	..	..	,, 34	..	Sown	Mds. 34	..	..	..	
			Soymida gum ..	,, 1	..	..	..	..	,, 1	..	..	..	..	Mds. 1	..	
			Gillo nuts ..	,, 749	..	..	..	..	,, 749	..	..	..	..	,, 749	..	
		Gopálpur ..	,, ..	,, 58	..	..	..	..	,, 58	..	Used as samples ..	58	..	..	..	
			Total, Minor produce.	Mds. 903	Tons 10	..	..	..	Mds. 903	Tons 10	..	Mds. 96	Ton 1	Mds. 807	Tons 9	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Godávari	..	Madras ..	Ironwood ..	..	..	..	2	29	2	29	Sold to Madras Railway Company.	1	14	1	15	
			Miscellaneous ..	..	..	..	6	57	6	57	Do.	3	28	3	29	
			Total, Timber ..	..	..	..	8	Tons 2 or 86	8	Tons 2 or 86	..	4	Tons 1 or 42	4	Tons 1 or 44	
Kistna ..	..	Bezváda ..	Firewood ..	..	..	..	Tons 11	220	Tons 11	220	Sold	Tons 11	220	..	..	
			Total, Fuel ..	..	..	..	Tons 11	220	Tons 11	220	..	Tons 11	220	..	..	
Nellore.	..	Madras ..	Narudu poles ..	120	120	Excess found.	2	2	122	122	Sold	122	122	..	..	
			Casuarina poles.	1	2	..	..	..	1	2	..	..	..	1	2	
			Total, Timber ..	121	Ts. 2 or 122	..	2	2	123	Ts. 2 or 124	..	122	Ts. 2 or 122	1	2	
		Do. ..	Junglewood ..	10,23,850	Ts. 1,430	Sríharikóta ..	1,820,685	Ts. 2,444	2,844,535	Ts. 3,874	Sold	2,512,698	Ts. 3,414	331,499	Tons 460	
											Short delivery ..	326				
			Jungle bundles	8,907	380	Do. ..	7,840	87	16,747	467	Sold	16,255	457	489	10	
											Short delivery ..	3				
			Casuarina ..	..	..	Plantations ..	Ts. 396	..	Ts. 396	..	Sold	Tons 391	..	..	..	
											Short delivery ..	,, 4				
											Dryage	,, 1				
			Total, Fuel ..	..	Ts. 1,810	..	Ts. 2,927	..	Ts. 4,737	..	..	Ts. 4,267	..	Tons 470	..	
		Do. ..	Suratichekka ..	Mds. 82	..	..	..	..	Mds. 82	..	Sold	Mds. 79½	..	..	..	
											Wastage ..	,, 2½				
			Nux-vomica ..	..	..	..	Mds. 47½	..	,, 471½	..	Sold	,, 471½	..	..	..	
			Sarsaparilla ..	..	..	..	,, 5	..	,, 5	..	..	..	..	Mds. 5	..	
			Rattans ..	Bds. 21	..	..	Bds. *183	..	,, 204 = Mds. 193½		Sold	Bds. 169	..	35 = Mds. 24½		*1 bundle = 1 maund estimate.
			Total, Minor-produce.	Mds. 92½ = Ton 1		..	Mds. 659½ = Tons 7½		Mds. 752	= Tons 8½	..	Mds. 722½ = Tons 8		Mds. 29½ = Ton ½		
Cuddapah.	..	Kódúr ..	Red sander roots, &c.	..	..	Forests ..	Ts. 1,080¼	51,876	1,080¾	51,876	Sold	Tons 900	43,200	Tons 180¾	8,676	
		Peddapád ..	Do. do. ..	Ton ½	12	,, ..	,, 234⅚	11,262	234⅞	11,274	Sold	,, 104	4,992	,, 130⅝	6,270	
											Written off ..	,, ½	12			
		Orampád ..	Do. do. ..	..	..	,, ..	,, 756	36,288	756	36,288	Sold	,, 680	32,640	,, 76	3,648	
		Badvél ..	Do. posts ..	..	..	,, ..	,, 200	200	200	200	Sold	No. 75	75	..	..	
											Used departmentally.	,, 125	125			For range house.

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity	Cubic feet	Whence received.	Number or Quantity.	Cubic feet	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Cuddapah—*cont.*	..	..	Miscellaneous posts.	..	..	Forests ..	87	87	87	87	Used departmentally.	No. 87	87	..	..	
		Cuddapah ..	Redwood rafters.	..	..	,, ..	78	78	80	80	Sold	,, 80	80	..	..	
		..	Miscellaneous ..	..	..	Found in stock. ..	2 70	2 70	70	70	Do.	,, 70	70	..	..	
			Total, Timber ..	Ton ¼	12	..	Ts. 2,080⅛	99,863	Ts. 2,080⅛	99,875	..	Ts. 1,693	81,281	Tons 387⅛	18,594	
		Rájampet ..	Firewood ..	..	..	Forests ..	Tons 1½	84	Tons 1½	84	Sold	Tons 1½	84	..	..	
			Total, Fuel ..	..	..	..	Tons 1½	84	Tons 1½	84	..	Tons 1½	84	..	..	
		Cuddapah.	Gallnuts C. ..	Mds. 2,252	..	Forests ..	Mds. 502	..	Mds. 2,754	..	Sold	Mds 1,348	..	Mds. 355	..	B=Beleric. C=Chebulic.
			Do. B. ..	..	..	Do. ..	,, 999	..	,, 999	..	Dryage	,, 1,051	..			
		Wontimitta.	Do. C. ..	..	..	Do. ..	,, 1,010	..	,, 1,010	..	..	..	..	,, 999	..	
			Do. B. ..	..	..	Do. ..	,, 151	..	,, 151	..	Dryage	,, 128	..	,, 882	..	
		Keerappalle	Do. C. ..	..	..	..	,, 2,035	..	,, 2,035	..	..	..	..	,, 151	..	
		Polisettivandlapalle	Do. C. ..	..	..	..	,, 733	..	,, 733	..	..	..	..	,, 2,035	..	
		Váyalpád ..	Tangedu ..	Mds. 112	..	..	,, 98	..	,, 210	..	..	..	..	,, 733	..	
		Madanapalle	Mangoes ..	..	..	..	1,636=Mds. 22		1,636=Mds. 22		Sold	,, 210	..	..	..	75 fruits per maund.
			Total, Minor produce.	Mds. 2,364	=Ts. 26¼	..	Mds. 5,550	=Ts. 61¼	Mds. 7,914	=Ts. 88	Do.	1,636=Mds. 22		..	..	
											..	Mds. 2,759	=Ts. 30¾	Mds. 5,155	=Ts. 57¼	
Kurnool	..	Nandikótkur.	Gallnuts B. ..	Mds. 500	..	..	Mds. 280	..	Mds. 780	..	..	..	..	Mds. 780	..	
		Sirvél ..	Do. B. ..	,, 300	..	..	,, 190	..	,, 490	..	..	..	..	,, 490	..	
		Velgode ..	Do B. ..	,, 230	..	..	..	..	,, 230	..	..	..	..	,, 230	..	
		Nandyál ..	Do. B. ..	,, 500	..	..	..	..	,, 500	..	..	..	..	,, 500	..	
			Total, Minor produce.	Mds 1,530	=Tns. 17	..	Mds. 470	=Tns. 5½	Mds. 2,000	=Tns. 22½	..	..	..	Mds. 2,000	=Tns. 22½	
Bellary.	..	Hospet ..	Firewood ..	..	..	Sandár ..	Tons 11	..	Tons 11	..	..	..	..	Tons 11	..	
			Total, Fuel ..	..	..	..	Tons 11	..	Tons 11	..	..	..	..	Tons 11	..	
		Bellary ..	Kapila Dye ..	..	..	..	lb 20	..	lb. 20	..	..	..	..	lb. 20	..	
			Total Minor Produce.	..	..	..	lb. 20	..	lb. 20	..	..	..	..	lb. 20	..	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce.	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	How disposed of.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet.	
Ananta-pur.	..	Gooty ..	Babul beam ..	..	..	..	1	12	1	12	Sold	1	12	..	..	
			Palmyra ..	..	..	..	1	2	1	2	..	..	..	1	2	
			Total, Timber ..	..	..	..	2	Tns. ¼=14	2	Tns. ¼=14	..	1	Tns. ¼=12	1	2	
		Bukkapat-nam.	Honey	Mds. 42¾	..	..	Mds. 82¼	..	Mds. 125	..	Sold	Mds. 118	..	Mds. 1¼	..	
											Wastage ..	,, 5¾				
			Wax	,, ½	..	..	,, 3	..	,, 3½	..	Sold	,, 3½	..	..	..	
			Gallnuts B. ..	,, 233	..	..	..	..	,, 233	..	Do.	,, 1	..	,, 232	..	
			Do. C. ..	..	..	..	,, 75¾	..	,, 75¼	..	Do.	,, 75¼	..	..	..	
			Teak-seeds ..	,, 2½	..	..	..	..	,, 2½	..	Sown in forests..	,, 2½	..	..	..	
			Tamarind ..	..	..	..	,, 4½	..	,, 4½	..	..	..	..	,, 4½	..	
			Gum	..	..	..	Mds. 21	..	Mds. 21	..	Sold	Mds. 20¾	..	..	..	
											Dryage	,, ¼	..			
		Gooty ..	Do.	Mds. ¾	..	..	,, ½	..	,, 1¼	..	..	..	..	Mds. 1¼	..	
			Babul pods ..	,, 1,658	..	..	..	..	,, 1,658	..	..	..	..	,, 1,658	..	
			,, bark ..	1	..	..	..	..	,, 1	..	..	..	..	,, 1	..	
			Total, Minor produce.	Mds. 1,938½	=21½ Tons.	..	Mds. 187	Tons 2	Mds. 2,125½	=23½ Tons.	..	Mds. 227½	=2½ Tons.	Mds. 1,898	=21 Tons.	
Nilgiris.	..	Coonoor..	Acacia planks..	251	167	Forest ..	189	122	440	289	Sold	62	41	..	..	*For Bandy Shola char-coal shed. For Bandy Shola rest house. Sim's Park seed house. Coonoor depôt. Wellington depôt.
											Used department-ally.	378*	248			
			,, rafters..	196	196	..	327	327	523	523	Sold	183	183	211	211	
											Used department-ally.	129*	129			
			Drag poles (blue gum, &c.)	260	260	..	3,592	3,592	3,852	3,852	Sold	2,910	3,365	487	487	
											Do. as fuel ..	455				
			Total, Timber ..	707	623=12½ Tons.	..	4,108	4,041=81 Tons.	4,815	4,664=93½ Tons.	..	4,117	3,966=79½ Tons.	698	698=14 Tons.	
		Ootacamund.	Firewood (blue gum, &c.).	Tons 387	..	Aramby, Baikei, Governor's Shola, &c.	Tons 448	..	Tons 835	..	Sold	Tons 658	..	Tons 48	..	
											Dryage	,, 129	..			
			Charcoal ..	,, 1	..	Coonoor ..	,, 11	..	,, 12	..	Sold	,, 11½	..	,, ½	..	

Receipts and Issues of Timber and other Produce in Sale Depôts during the year 1887-88—*cont.*

District.	Range.	Name of Depôt.	Description of Timber and other Produce	On hand, 1st April 1887.		Received during the year.			Total.		Disposed of during the year.			Balance on 31st March 1888.		Remarks.
				Number or Quantity.	Cubic feet.	Whence received.	Number or Quantity.	Cubic feet.	Number or Quantity.	Cubic feet	How disposed of.	Number or Quantity.	Cubic feet	Number or Quantity.	Cubic feet.	
Nilgiris —*cont.*	..	Coonoor ..	Firewood ..	Tons 103	..	Forest ..	Tons 239	..	Tons 342	..	Sold	Tons 143	..	Tons 93	..	
											Taken to Wellington depôt.	,, 9	..			
											Dryage	,, 97	..			
		Wellington.	Do. ..	,, 8	..	Do. ..	,, 1,116	..	,, 1,124	..	Sold	,, 935½	..			
											Dryage	,, 94½	..			
											Used departmentally.	,, 5	..	,, 89	..	
			Charcoal ..	..	..	Bandy shola..	,, 6	..	,, 6	..	Sold	,, 5½	..	,, ½	..	
			Total, Fuel ..	Tons 499	..	..	Tons 1,820	..	Tons 2,319	..	..	Tons 2,088	..	Tons 231	..	

ABSTRACT.

			Sál logs and poles.	Tons 59	..	..	Tons 419½	..	Tons 478½	..	..	Tons 382½	..	Tons 96	..	
			Red saunders ..	,, ¼	..	..	,, 2,076⅞	..	,, 2,077⅛	..	..	,, 1,689¾	..	,, 387⅜	..	
			Miscellaneous ..	,, 86¾	..	..	,, 190	..	,, 276¾	..	..	,, 174¼	..	,, 101	..	
			Sleepers, rafters, posts, &c. ..	,, 53½	..	..	,, 236	..	,, 289½	..	..	,, 275¾	..	,, 13¾	..	
			Total timber ..	Tons 199½	..	..	Tons 2,922⅜	..	Tons 3,121⅞	..	..	Tons 2,522¾	..	Tons 598⅛	..	
			Fuel and charcoal.	Tons 2,323	..	..	Tons 4,770½	..	Tons 7,093½	..	..	Tons 6,374½	..	Tons 719	..	
							lb. 312	..	lb. 312	..	..	lb. 204	..	lb. 108	..	
			Bamboos ..	..	..	..	Tons 1½	..	Tons 1½	..	..	Tons 1½	..	..	..	
			Minor produce.	,, 75¼	..	..	,, 76¼	..	,, 152	..	..	,, 42⅝	..	Tons 109¾	..	
							lb. 20	..	lb. 20	..	..	..	..	lb. 20	..	

Annual Form No. 71.

Forest Department, Madras, Northern Circle.

Sales of timber and other produce cut and collected by Government Agency during the year 1887-88.

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
				SOLD FROM DEPOT.				Rs. A. P.	Rs. A. P.		
Ganjam ..	..	Russellkondah ..	I (*a*)	Sál logs	13	89	Auction.	10 3 0	7 0 0	..	..
				,, sleepers	1,130	2,486	..	1,902 12 0	1,902 12 0	..	..
				Sajo logs	17	279	..	124 14 0	124 14 0	..	..
				,, planks	* 2	8	..	..	..	..	..
				Dhau logs	3	40	Auction.	1 0 0	..	..	..
				,, planks	* 2	8	..	..	..	..	..
				Ebony logs	2	15	..	0 8 0	..	..	..
				Blackwood logs	2	13	..	0 12 0	0 12 0	..	..
				Satinwood planks ..	* 2	8	..	..	..	..	..
				Piasál ,, ..	7	4	..	2 0 0	..	..	..
				,, rafters	4	4	..	5 0 0	1 8 0	..	..
				Miscellaneous logs ..	37	236	..	..	..	..	..
				,, planks ..	* 31	20	..	† 213 5 0	164 5 5	..	..
				Slabs, tides, &c.	* 3,058		..	42 12 0	42 12 0	..	..
	..	Berhampore ..	Do.	Sál logs	7	55	..	595 10 0	595 10 0	..	..
				,, sleepers	315	667	..	543 8 0	543 8 0	..	..
				,, rafters	167	370	..	15 12 0	15 12 0	..	..
				Miscellaneous logs ..	3	21	..	64 9 8	64 9 8	..	..
				Do. slabs ..	270	21	..	147 0 0	147 0 0	..	..
				Sál poles	88	558	Auction.	1,304 0 0	109 4 7	..	..
				,, sleepers	929	1,887	..	265 1 4	..	..	..
	..	Gopálpur	Do.	Scantlings	111	2,069	Rs. 1-4-6 each c.ft.	47 15 0	47 15 0	..	..
				Slabs, &c.	513	..	Auction.				
				Total, Timber ..	64,070	8,837 or Tons 167½	..	5,286 10 0	3,767 10 8	..	..
	..	Russellkondah ..	I (*e*)	Bamboos	110 or Tons 1½	..	Auction.	1 8 0	1 8 0	..	..
				Total, Bamboos ..	110 or Tons 1½	..	..	1 8 0	1 8 0	..	..
				Total, Ganjam ..	..	..	..	5,288 2 0	3,769 2 8	..	..

† This amount includes the cost of items marked thus *

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
								Rs. A. P.	Rs. A. P.		
Godávari ..	..	Madras	I (*a*)	Ironwood	1	14	Rs. 0 12 0 per c. ft.	10 8 0	29 0 0	Lgs. 4	..
				Miscellaneous wood ..	3	28	,, 0 12 0 ,, ,, 0 10 0 ,,	18 8 0			
				Total, Timber ..	4	42 = 1 Ton	..	29 0 0	29 0 0	..	..
				Total, Godávari ..	..	..	..	29 0 0	29 0 0	..	..
Kistna ..	..	Bezváda	I (*b*)	Firewood	Tons 11	..	Auction.	25 7 0	25 7 0	..	..
				Total, Fuel ..	Tons 11	..	..	25 7 0	25 7 0	..	..
				Total, Kistna ..	..	..	..	25 7 0	25 7 0	..	..
Nellore ..	..	Madras	I (*a*)	Narudu poles	122	122	Rs. 0 1 6 ,, 0 10 6 each.	11 5 0	11 5 0	122	..
				Total, Timber ..	122	122 = 2 Tons	..	11 5 0	11 5 0	122	..
			I (*b*)	Firewood	2,512,698	Tons 3,414	Rs. 3 10 0 to ,, 20 0 0 per 1,000.	22,555 13 0	22,555 13 0	All removed.	..
				,, bundles ..	16,255	Do. 457	As. 3 to 3½ each.	3,389 7 9	3,389 7 9		
				,, casuarina ..	..	Do. 391	Rs. 5 to 9 per ton.	3,082 9 1	3,082 9 1		
				Total, Fuel ..	..	Tons 4,262	..	29,027 13 10	29,027 13 10	..	..
			I (*c*)	Suratichekka	Mds. 79½	..	..	352 0 0	352 0 0	All removed.	..
				Nux-vomica	,, 471½	..	..	282 0 0	282 0 0		
				Rattan bundles	,, 169	..	Rs. 5 12 0 per bundle.	971 6 0	971 6 0		
				Total, Minor produce ..	Mds. 720	or Tons 8	..	1,605 6	1,605 6 0	..	..
				Total, Nellore ..	..	..	..	30,644 8 10	30,644 8 10	..	..
Cuddapah.	..	Kodúr	I (*a*)	Redwood roots, &c. ..	Tons 900	..	Rs. 17 12 0 per ton.	15,975 0 0	15,975 0 0	Tons 400	Tons 500
	..	Peddapad		Do. do. ..	100	..	..	1,775 0 0	1,775 0 0	,, 100	..
	..	Orampád		Do. refusewood ..	4	..	,, 2 0 0 per ton.	8 0 0	8 0 0	4	..
	..	Badvél		Do. do ..	680	..	,, 17 0 0 ,,	11,560 0 0	11,560 0 0	340	Tons 340
				Do. &c., poles ..	75	..	Auction.	6 0 3	6 0 3	75	..
	..	Cuddapah		Do. &c., rafters ..	80	..	..	11 9 8	11 9 8	150	..
				Miscellaneous wood ..	70	..					
				Total, Timber ..	Tons 1,688½	..	..	29,335 9 11	29,335 9 11	..	..

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
								Rs. A. P.	Rs. A. P.		
	..	Rájampet	I (*b*)	Firewood	Tons. 1½	..	Auction.	7 0 0	7 0 0	Tons 1½	..
				Total, Fuel ..	1½	..	..	7 0 0	7 0 0	..	..
Cuddapah —*cont.*	..	Cuddapah	I (*e*)	Gallnuts	Maunds 1,348	..	Rs. 2 0 0 / „ 0 10 6 per md.	939 11 6	939 11 6	All removed.	..
	..	Voyalpád		Tengedu bark	210	..	Auction.	134 12 0	134 12 0		
	..	Madanapalle ..		Mangoes ..	No. 1,636 = Maunds 22	..	Do.	48 11 6	48 11 6		
				Total, Minor produce ..	Mds. 1,580	= 17½ Tons.	..	1,123 3 0	1,123 3 0	..	..
				Total, Cuddapah ..	..	..	..	30,465 12 11	30,465 12 11	..	..
Anantapur.	..	Gooty	I (*a*)	Babul beam	1	12	Auction.	4 4 0	4 4 0	Beam 1	..
				Total, Timber ..	1	12 = ½ Ton.	..	4 4 0	4 4 0	1	..
	..	Bukkapatuam ..	I (*e*)	Honey	Maunds 118	..	Rs. 2 4 0 / „ 2 0 0 / „ 1 14 0 per md.	226 9 8	226 9 8	Maunds 118	..
				Wax	3½	..	..	28 15 4	28 15 4	„ 3½	..
				Gallnuts B.	1	..	„ 0 6 0	0 6 0	0 6 0	„ 1	..
				„ C.	75¾	..	„ 0 10 0 / „ 0 9 0 a md.	43 11 5	43 11 5	„ 75¾	..
				Gum	20¾	..	„ 2 8 0 / „ 2 4 0 „	51 7 3	51 7 3	„ 20¾	..
				Total, Minor produce.	Maunds 219	= 2½ Tons.	..	351 1 8	351 1 8	..	..
				Total, Anantapur ..	..	..	..	355 5 8	355 5 8	..	..
Nílgiris ..	..	Coonoor	I (*a*)	Acacia planks	62	41	Rs. 0 10 6 / „ 0 7 0 each.	34 2 0	34 2 0	All removed.	..
				„ rafters	183	183	„ 0 5 6 / „ 0 7 0 / „ 0 10 6 / „ 0 11 0 / „ 0 14 0 „	130 1 4	130 1 4		
				Drag poles	2,190	2,910	„ 0 2 0 auction.	489 9 0	489 9 0		
				Total, Timber ..	3,155	3,134 or 62⅓ Ts.	..	653 12 4	653 12 4	..	..

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head-	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
								Rs. A. P.	Rs. A. P.		
Nílgiris—*cont.*	..	Ootacamund ..	I (*b*)	Firewood	Tons 658	..	Rs. 3 0 0 per 1,000 ,, 3 2 0 lb.	4,424 11 6	4,301 3 0	All removed.	..
	..	Coonoor	Do.	Charcoal	,, 11½	..	,, 47 6 3 a ton.	545 0 0	545 0 0		
	..	Wellington ..	Do.	Firewood	,, 143	..	,, 5 5 8 ,,	783 14 0	783 14 0		
				Do.	,, 913	..	,, 6 9 0 ,,	5,993 1 2	5,993 1 2		
				Do. (bark, &c.) ..	,, 22½	..	Auction.	23 5 10	23 5 10		
				Charcoal	,, 5⅛	..	,, 49 13 1 a ton.	274 0 0	270 0 0		
				Total, Fuel and Charcoal.	Tons 1,753½	..	..	12,044 0 6	11,916 8 0	..	..
				Total, Nílgiris ..	..	..	..	12,697 12 10	12,570 4 4	..	..
				Total sold from depôt ..	..	..	..	79,506 1 3	77,859 9 5	..	..
				SOLD LOCALLY.							
Ganjam ..	..	Mojjagodo ..	I (*a*)	Sál logs	209	2,342 or 47 Tons	Rs. 0 4 6 per c.ft.	658 11 0	658 11 0	209	2,342
		Berhampore ..	..	Do.	1	6	..	1 6 0	1 6 0	..	..
				Total, Timber ..	210	2,348 or 47 Tons		660 1 0	660 1 0	209	2,342
			I (*b*)	Firewood	Tons 247½	..	Auction.	193 7 10	60 15 10	..	..
			I (*c*)	Tamarind	Ton ½	..	Do.	8 2 0	8 2 0	..	..
				Total, Ganjam ..	..	..	..	861 10 10	729 2 10	..	..
Godávari ..	..	Rékapalli	I (*a*)	Ironwood	10	125 or 2½ Tons	Rs. 0 8 0	62 8 0	62 8 0	10	..
				Total, Timber ..	10	125 or 2½ Tons	..	62 8 0	62 8 0	10	..
				Total, Godávari ..	..	..	..	62 8 0	62 8 0	..	..
Kistna ..	..	Bezváda	I (*c*)	Tumma poles	14	14	Auction.	12 12 0	12 12 0	All removed.	..
	..	Palnád		Margosa poles	719	200	..	26 0 0	26 0 0		
	..	Do.		Do. sticks	..	20	..	1 0 0	1 0 0		
	..	Bandar		Casuarina poles	30	30	Rs. 0 6 0 each.	11 4 0	11 4 0		
	..	Bápatla and Krosur..		Miscellaneous wood ..	..	240	Auction.	12 10 0	12 10 0		
				Total, Timber ..	763	504 or 10 Tons	..	63 10 0	63 10 0	..	..
	..	Bezváda	I (*b*)	Tumma fuel	Tons 36	..	Auction.	69 4 0	69 4 0	All removed	..
	..	Bápatla	..	Firewood	,, 19	..	..	7 10 3	7 1 3		
				Total, Fuel ..	Tons 55	..	..	76 14 3	76 5 3	..	..

Sale of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
								Rs. A. P.	Rs. A. P.		
Kistna—*cont.*	..	Palnad	I (*e*)	Soapunts	Mds. 4	..	Auction.	3 0 0	3 0 0	..	..
				Total, Minor produce ..	Mds. 4	..	..	3 0 0	3 0 0	..	..
				Total, Kistna ..	..	..	..	143 8 3	142 15 3	..	..
Nellore.	..	Plantation	I (*a*)	Casuarina poles	200	216	..	55 1 4	..	..	..
				Stakes and pegs	24,000	557	..	120 0 0	175 1 4	..	..
				Total, Timber ..	24,200	773 or 15½ Tons.	..	175 1 4	175 1 4	..	..
	..	Plantation S. ..	I (*b*)	Casuarina wood	Tons. 207	..	Rs. 3 to 5-8-0	874 10 0	874 10 0	..	Not removed.
		Do. N. ..	..	,, ,, ...	,, 31	..	Rs. 2-14-0 to 5-4-0	124 8 9	124 8 9	Removed.	..
				,, roots, stumps, &c.	40	..	Auction.	127 15 6	127 15 6		
				Rent for wood unremoved.	..	..	..	154 0 0	154 0 0		
				Total, Fuel ..	Tons. 278	..	..	1,281 2 3	1,281 2 3	..	..
	..	Sríharikót	I (*e*)	Deposit for suratichekka.	..	..	..	50 0 0	50 0 0	..	..
				,, chayroot ..	..	..	..	200 0 0	200 0 0	..	..
				Balance received for do.	..	..	..	750 0 0	750 0 0	..	..
				Casuarina seed	Md. ½	..	..	2 0 0	2 0 0	..	..
				Total, Minor produce.	Md. ½	..	..	1,002 0 0	1,002 0 0	..	..
				Total, Nellore ..	..	..	..	2,458 3 7	2,458 3 7	..	..
Ouddapah.	..	Kodúr	I (*a*)	Red sander poles ..	237	237	Auction.	101 10 0	101 10 0	All removed.	..
	..	Rajampet	Do.	Miscellaneous	28	28	..	6 1 0	6 1 0		
				Red sander posts ..	575	575	..	49 0 0	49 0 0		
	..	Voyalpád	Do.	Miscellaneous	79	79	..	10 6 0	10 6 0		
				,,	344	344	..	266 11 0	266 11 0		
				Total, Timber ..	1,263	1,263 or 25 Tons.	..	433 12 0	433 12 0	..	..
	..	Kodúr	I (*e*)	Bamboos	19,270	..	Auction.	253 9 0	253 9 0	All removed.	..
	..	Rajampet		,,	120	..	Rs. 1-4-0 per 100.	1 8 0	1 8 0		
				Total, Bamboos ..	19,390	or 388 Tons.	..	255 1 0	255 1 0	..	..

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
								Rs. A. P.	Rs. A. P.		
Cuddapah —*cont.*	..	All ranges ..	I (*e*)	Tangedu bark	Mds. 148	..	Auction.	97 0 0	97 0 0	All removed.	..
	..	Madanapalle, &c. ..	Do.	Mangoes	No. 9,432 = Mds. 126		As. 4 per 100 ,, 3 ,, 100 Auction.	24 8 0	24 8 0		
	..	Do. ..	Do.	Pomegranites	No. 96 = Mds. 2		Do.	3 0 0	3 0 0		
	..	Do. ..	Do.	Coffee	Mds. 1¼	..	..	10 8 0	10 8 0		
				Total, Minor produce ..	Mds. 277¼	= 3 Tons.	..	135 0 0	135 0 0	..	..
				Total, Cuddapah ..	..	..	..	823 13 0	823 13 0	..	..
Kurnool ..	..	Nandyál ..	I (*b*)	Firewood	Tons 191	..	..	1,003 11 0	1,003 11 0	Removed.	..
				Total, Fuel ..	Tons 191	..	..	1,003 11 0	1,003 11 0	..	..
	..	Sirvel and Velgode.	I (*e*)	Honey	Mds. 10	..	..	20 0 0	20 0 0	Removed.	..
				Wax	,, 2¾	..	..	36 0 0	36 0 0		
				Total, Minor produce ..	Mds. 12¾	..	..	56 0 0	56 0 0	..	..
				Total, Kurnool ..	..	..	..	1,059 11 0	1,059 11 0	..	..
Bellary ..	..	Sandúr ..	I (*a*)	Teak poles	682	2,046	Rs. 1 2 0 each	767 4 0	767 4 0	All removed.	..
					13	39	Auction.	7 0 0	7 0 0		
				,, rafters	925	1,850	Rs. 0 14 8 per 100.	134 2 0	134 2 0		
					100	200	,, 12 0 0 per 100.	12 0 0	12 0 0		
					1	2	..	0 4 4	0 4 4		
				Total, Timber ..	1,721	4,137 or 82½ Tons	..	920 10 4	920 10 4	..	..
	..	Do.	I (*b*)	Firewood stacks	Tons 365	..	* ..	1,681 14 0	1,681 14 0	Removed.	..
				Brushwood	,, 39	..	..	57 12 0	57 12 0		
				Charcoal	Mds. 9	..	Rs. 0 5 9 a md.	3 3 6	3 3 6		
				Total, Fuel ..	Tons 404	..	..	1,742 13 6	1,742 13 6	..	..

* 50 Tons at Rs. 5-10- 3 .. .. = Rs. A. P. 282 0 0
54 ,, at ,, 4-14-10 .. .. = 266 0 0
257 ,, at ,, 4- 5-10 .. .. = 1,121 14 0
4 ,, at ,, 3- 0- 0 .. .. = 12 0 0

Total .. 1,681 14 0

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
								Rs. A. P.	Rs. A. P.		
	..	Sandúr	I (*c*)	Large bamboos	212	..	Rs. 6 8 0 per 100	13 13 0	13 13 0	Removed.	..
				Small ,, ...	76,166	..	,, 2 12 0 ,,	2,094 9 5	2,094 9 5		
				Total, Bamboos ..	76,378	or 1,018 Tons.	..	2,108 6 5	2,108 6 5	..	..
Bellary—*cont.*	..	Do.	I (*e*)	Gallnuts	Mds. 23	..	Rs. 0 4 0 a md.	5 12 0	5 12 0	..	..
				Honey	,, 3	..	,, 5 8 11 ,,	16 10 9	16 10 9	..	..
				Wax	,, 1	..	..	9 6 0	9 6 0	..	..
				Sheakoy	,, 10	..	,, 1 4 0 a md.	12 8 0	12 8 0	..	..
				Gum	,, 1½	..	,, 1 8 11 ,,	2 5 4	2 5 4	..	..
				Total, Minor produce ..	Mds. 38½	or ½ Ton.	..	46 10 1	46 10 1	..	..
				Total, Bellary ..	..	..	..	4,818 8 4	4,818 8 4	..	..
	..	Gooty	I (*a*)	Babul beam	1	12	Auction.	5 10 0	5 10 0	Removed.	..
	..	Anantapur	Do.	Palmyra trees	15	120	Rs. 3 0 0 each.	45 0 0	45 0 0		
				,, reepers	200	300	Auction.	67 11 0	67 11 0		
				Total, Timber ..	216	432 or 8½ Tons.	..	118 5 0	118 5 0	..	..
	..	Gooty	I (*b*)	Firewood	Ton 1	..	Auction.	2 12 0	2 12 0	..	..
				Total, Fuel ..	Ton 1	..	..	2 12 0	2 12 0	..	..
Anantapur	..	All ranges	I (*e*)	Gum	Mds. 21¾	..	Rs. 2 4 0, ,, 2 8 0, ,, 2 12 0 a md.	50 6 3	50 6 3	Removed.	..
				Honey	,, 2	..	Auction.	6 10 0	6 10 0		
				Wax	,, 1¾	..	,, 8 0 0, ,, 9 0 0 a md.	12 6 2	12 6 2		
	..	..	I (*e*)	Gallnuts	Mds. 28¾	..	0 9 0, 0 10 6, 0 11 0 a md.	17 0 10	17 0 10	Removed.	..
				Kanuga seeds	,, 3¼	..	Auction.	1 0 0	1 0 0		
				Palmyra leaves	No. 150	or 5 Mds.	Do.	0 4 0	0 4 0		
				Total, Minor produce ..	Mds. 62½	or ¾ Ton.	..	87 11 3	87 11 3	..	..
				Total, Anantapur ..	..	..	..	208 12 3	208 12 3	..	..

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
							Rs. A. P.	Rs. A. P.	Rs. A. P.		
Nilgiris	..	Mudumalai range	I (*a*)	Teak	..	1,000	Rs. 0 8 0 c.ft.	500 0 0	500 0 0	..	1,000 c.ft.
				,,	2	16	,, 0 12 0 ,,	45 0 0	45 0 0	Logs 2	..
				,, poles	7	396	,, 0 8 0 each.	3 8 0	3 8 0	Poles 66	..
					59		,, 0 4 0	14 12 0	14 12 0		
	..	Coonoor do.	Do.	Drag ,,	87	87	Auction.	22 2 6	22 2 6	..	..
				Total, Timber	..	1,213 or 31 Tons	..	585 6 6	585 6 6	..	..
				Firewood (blue gum)	Tons 2,056	..	..	5,614 5 0	5,614 5 0	..	..
				,, (sholawood)	,, 160	..	..	458 2 0	458 2 0	..	..
				,, (blue gum)	,, 323	..	..	1,898 6 0	1,801 12 8	..	..
	..	Coonoor	I (*b*)	,, (sholawood)	,, 303	..	..	825 2 6	825 2 6	..	..
				,, (acacia)	,, 16	..	..	43 8 0	43 8 0	..	..
				Charcoal	,, 4	..	..	117 10 1	106 8 0	Tons 4	..
				Total, Fuel and charcoal	Tons 2,862	..	..	9,130 10 7	9,019 15 2	..	..
				Sandalwood billet and root	Mds. 1,375	..	Rs. 4 0 0 a md.	5,500 0 0	5,500 0 0	Mds. 1,375	..
					,, 82	..	,, 3 10 0 ,,	297 4 0	297 4 0	,, 82	..
	..	Sigúr	I (*d*)	Sandalwood chips	,, 100	..	,, 0 1 0 ,,	6 4 0	6 4 0	,, 100	..
				Total, Sandalwood	Mds. 1,557	or 17¼ Tons.	..	5,803 8 0	5,803 8 0	..	..
							Average.				
	..	All ranges	I (*e*)	Honey	Mds. 53	..	Rs. 3 4 6 a mds. ,, 0 4 5 a bottl.	174 0 9	174 0 9	..	..
				Coffee	,, 2½	..	..	25 0 0	25 0 0	..	..
	..	Coonoor	..	Timber saw dust	..	..	..	3 0 0	3 0 0	..	..
				Deposit for gallnuts	..	..	..	300 0 0	300 0 0	..	..
				Total, Minor produce	Mds. 55½	or ½ Ton.	..	502 0 9	502 0 9	..	..
				Total, Nilgiris	..	..	..	16,021 9 10	15,910 14 5	..	..
				Total locally sold	..	..	..	26,458 5 1	26,214 8 8	..	..
				Drift wood.							
Godávari	..	Godávari river	III	Teak	1,798	7,249	Auction.	5,988 7 3	5,988 7 3	All removed.	..
				Miscellaneous	1,751	12,329	..	2,332 9 6	2,332 9 6		
				Boat	1	1,080	..	270 0 0	270 0 0		
				Total, Timber	3,550	20,658 or 413 Tons.	..	8,591 0 9	8,591 0 9	..	..

Sales of timber and other produce cut and collected by Government agency during the year 1887-88—*cont.*

District.	Range.	Depôt or locality.	Budget sub-head.	Description of timber and other produce.	Number or quantity.	Cubic feet.	Rate.	Total amount of sale.	Amount actually paid.	Number of logs and pieces, &c., removed.	Number sold, but remaining unremoved.
							Rs. A. P.	Rs. A. P.	Rs. A. P.		
Godávari—*cont.*	..	Godávari river ..	III ..	Fuel	Tons 150	..	..	347 13 4	347 13 4	..	..
				Total, Fuel ..	Tons 150	..	..	347 13 4	347 13 4	..	..
				Bamboos	6,330 or 84 Tons.	..	..	41 5 3	41 5 3	..	..
				Total, Bamboos ..	6,330 or 84 Tons.	..	..	41 5 3	41 5 3	..	..
					..	..	..	8,980 3 4	8,980 3 4	..	..
				* Deduct about one-fourth amount paid for salving and refunds and other charges	..	..	..	— 2,388 11 6*	— 2,388 11 6*	..	..
				Total, Godávari ..	..	..	..	6,591 7 10	6,591 7 10	..	..
				Confiscated and Waif-wood.							
Ganjam ..	..	..	do.	..	..	..	..	155 5 8	155 5 8	..	..
Vizagapatam	..	..		..	..	..	..	22 3 7	22 3 7	..	..
Godávari ..	..	..		..	..	..	..	148 5 10	148 5 10	..	..
Kistna ..	..	..		..	..	..	..	327 8 5	327 8 5	..	..
Nellore ..	..	..		..	..	..	..	60 15 1	60 15 1	..	..
Cuddapah ..	..	..		..	..	..	..	846 7 7	846 7 7	..	..
Kurnool ..	..	..		..	..	..	..	1,000 8 1	1,000 8 1	..	..
Bellary ..	..	..		..	..	..	..	124 3 4	124 3 4	..	..
Anantapur ..	..	..		..	..	..	..	45 1 0	45 1 0	..	..
Nilgiris ..	..	..		..	..	..	..	6 11 6	6 11 6	..	..
				Total III ..	..	..	..	2,737 6 1	2,737 6 1	..	..
				Total. Sold from Depôt.	..	..	..	79,506 1 3	77,859 9 5	..	..
				,, Locally ..	..	..	..	26,458 5 1	26,214 8 8	..	..
				,, Drift ..	..	..	..	9,328 13 11	9,328 13 11	..	..

			Abstract of amount realized.
Add—Outstandings due from previous year as per Form No. 66	Total ..	1,15,293 4 3	1,13,403 0 0
	..	3,663 10 5	3,663 10 5
	Total ..	1,18,956 14 8	1,17,066 10 5
Deduct—Amount realized during the year		1,17,066 10 5	
Balance outstanding on 31st March 1888 as per Form No. 66		1,890 4 3	

I (*a*)	37,133
I (*b*)	57,517
I (*c*)	2,365
I (*d*)	5,804
I (*e*)	4,920
III	9,328
Total ..	1,17,067

Annual Form No. 72.

Forest Department, Madras, Northern Circle.

Timber and other produce cut, collected, and removed from the forests by consumers or purchasers, including pasture, during the year 1887-88.

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS.	RS.	
Ganjam ..	Timber	8	50	50	
	Auction sale-proceeds of trees.. ..	..	75	75	
	Total, Timber ..	8	125	125	II (*a*).
	Firewood	24,428½	10,661	10,661	
	Factory and Department of Public Works fuel.	1,481	161	161	
	Charcoal	69	235	235	
	Total, Firewood and Charcoal ..	25,978½	11,057	11,057	II (*b*).
	Bamboos	4,371	3,533	3,533	
	Total, Bamboos ..	4,371	3,533	3,533	II (*c*).
	Lease of fruits in different topes ..	..	669	669	
	Total, Minor Produce ..	..	669	669	II (*e*).
	Grand Total ..	30,357½	15,384	15,384	
Vizagapatam	Timber	1½	6	6	
	Miscellaneous timber	355	516	516	
	Sale of trees on darkhast lands ..	..	622	622	
	Sale of withered trees	..	19	19	
	Total, Timber ..	356½	1,163	1,163	II (*a*).
	Firewood	3,151½	2,087	2,087	
	Charcoal	141	426	426	
	Total, Firewood and Charcoal ..	3,292½	2,513	2,513	II (*b*).
	Bamboos	823	1,518	1,518	
	Total, Bamboos ..	823	1,518	1,518	II (*c*).
	Sale of fruit trees	..	26	26	
	Sale of palmyra leaves	..	13	13	
	Leaves for manure	4	9	9	
	Rough stone	39½	5	5	
	Tangedu bark	10½	32	32	
	Total, Minor Produce ..	54	85	85	II (*e*).
	Grand Total ..	4,526	5,279	5,279	
Godávari ..	Timber	5,907½	30,843	30,843	
	Sale of trees on darkhast lands ..	..	1,131	1,131	
	Total, Timber ..	5,907½	31,974	31,974	II (*a*).
	Firewood	7,356½	5,400	5,400	
	Do.. Marine Department contract.	675	100	100	
	Sale of dead trees	..	7	7	
	Charcoal	103	508	508	
	Total, Firewood and Charcoal ..	8,134½	6,015	6,015	II (*b*).
	Bamboos	14,222½	11,497	11,497	
	Total, Bamboos ..	14,222½	11,497	11,497	II (*c*).

Timber and other produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS.	RS.	
Godávari—*cont.*	Grazing	..	947	947	
	Total, Grazing ..	..	947	947	II (*d*).
	Lease of Tangedu bark	..	255	255	
	Tangedu bark	123½	374	374	
	Rough stone, &c.	357½	50	50	
	Sale-proceeds of usufruct of trees in Ashalaminha lands.	..	5,943	5,943	
	Other minor produce	..	6,210	6,210	
	Total, Minor Produce ..	481	12,832	12,832	II (*e*).
	Grand Total ..	28,745½	63,265	63,265	
Kistna ..	Timber	3,993	7,729	7,729	
	Palmyra trees	1,151	2,878	2,878	
	Sale of trees on darkhast lands ..	..	1,573	1,573	
	Do. on porambóke lands ..	..	6,324	6,324	
	Total, Timber ..	5,144	18,504	18,504	II (*a*).
	Firewood	13,625½	7,612	7,612	
	Charcoal	18	90	90	
	Total, Firewood and Charcoal ,,	13,643½	7,702	7,702	II (*b*).
	Bamboos	743½	2,000	2,000	
	Total, Bamboos ..	743½	2,000	2,000	II (*c*).
	Grazing	..	39,854	38,711	
	Total, Grazing ..	..	39,854	38,711	II (*d*).
	Palmyra leaves	2,030	849	812	
	Stone	..	151	137	
	Tangedu bark	..	5,087	5,087	
	Other minor produce	..	4,109	3,571	
	Total, Minor Produce ..	2,030	10,196	9,607	II (*e*).
	Grand Total ..	21,561	78,256	76,524	
Nellore ..	Palmyra trees	191	637	637	
	Timber	202	575	575	
	Sale of trees in Ashalaminha and darkhast lands.	..	5,231	5,231	
	Total, Timber ..	393	6,443	6,443	II (*a*).
	Firewood	1,422	1,422	1,422	
	Sale of firewood in Ashalaminha and darkhast lands.	..	848	848	
		1,422	2,270	2,270	
	Add outstanding from previous year ..	..	..	599	
	Total, Firewood ..	1,422	2,270	2,869	II (*b*).
	Bamboos	4	11	11	
	Total, Bamboos ..	4	11	11	II (*c*).
	Grazing and fodder grass	..	12,784	12,784	
	Total, Grazing and Fodder Grass ..	..	12,784	12,784	II (*d*).
	Rents of jungle products	..	87	87	
	Rents of topes, &c.	..	2,365	2,365	
	Rents and sale of palmyra leaves ..	..	168	168	
	Rents on Tangedu bark	..	18,058	18,058	
	Other minor produce	..	1,085	1,085	
		..	21,763	21,763	
	Add outstanding from previous year ..	..	..	337	
	Total, Minor Produce ..	..	21,763	22,100	II (*e*).
	Grand Total ..	1,819	43,271	44,207	

Timber and other produce cut, collected, and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS.	RS.	
Cuddapah ..	Miscellaneous timber	3,721	12,929	12,923	
	Trees on darkhast lands	1,423	5,295	5,295	
	Total, Timber ..	5,144	18,224	18,218	II (*a*).
	Firewood	12,191	9,530	9,527	
	Deadwood	1,344	1,770	1,770	
	Greenwood	480	480	480	
	Engine fuel	13,690	30,907	30,907	
	Trees on village waste	4,841	2,396	2,396	
	Charcoal	298	1,506	1,504	
	Total, Firewood and Charcoal ..	32,844	46,589	46,584	II (*b*).
	Bamboos	8,774	6,412	6,411	
	Total, Bamboos ..	8,774	6,412	6,411	II (*c*).
	Fodder grass	294	258	252	
	Grazing fees	..	975	975	
	Total, Grazing and Fodder grass ..	294	1,233	1,227	II (*d*).
	Tangedu bark	764	3,890	3,890	
	Miscellaneous barks	64	151	151	
	Leaves for manure	215	536	536	
	Amroy	3,351	31,656	31,656	
	Palmyra leaves	63	25	25	
	Other minor produce	740	3,535	3,535	
	Total, Minor Produce ..	5,197	39,793	39,792	II (*e*).
	Grand Total ..	52,253	1,12,251	1,12,232	
Kurnool ..	Timber	8,500	35,397	35,397	
	Total, Timber ..	8,500	35,397	35,397	II (*a*).
	Firewood	9,350			
	Dead trees on darkhast lands ..	938	11,288	11,288	
	Charcoal	377			
	Engine fuel	3,965	4,112	4,112	
	Total, Firewood and Charcoal ..	14,630	15,400	15,400	II (*b*).
	Bamboos	5,175	16,885	16,885	
	Total, Bamboos ..	5,175	16,885	16,885	II (*c*).
	Grazing	..	4,888	4,888	
	Total, Grazing ..	..	4,888	4,888	II (*d*).
	Minor produce	550	3,044	3,044	
	Total, Minor Produce ..	550	3,044	3,044	II (*e*).
	Grand Total ..	28,855	75,614	75,614	
Bellary ..	Timber	315	895	895	
	Palmyra trees	42	347	347	
	Sale of trees on darkhast lands ..	..	1,835	1,835	
	Total, Timber ..	357	3,077	3,077	II (*a*).
	Firewood	76½	195	195	
	Deadwood	3,279½	2,436	2,436	
	Do. sold by auction	..	722	722	
	Charcoal	193½	968	968	
	Total, Firewood and Charcoal ..	3,549½	4,321	4,321	II (*b*).

Timber and other produce cut, collected and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS.	RS.	
Bellary—*cont.*	Bamboos	12	30	30	
	Total, Bamboos ..	12	30	30	II (*c*).
	Fodder grass	219½	139	139	
	Grazing fees	..	264	264	
	Total, Grazing and Fodder Grass ..	219½	403	403	II (*d*).
	Tangedu bark	1,205½	7,232	7,232	
	Miscellaneous barks	5	25	25	
	Soapstone	23½	3	3	
	Leaves for manure	124½	97	97	
	Palmyra leaves	5	2	2	
	Rent of fruit trees	..	8,415	8,415	
	Total, Minor Produce ..	1,363½	15,774	15,774	II (*e*).
	Grand Total ..	5,501½	23,605	23,605	
Anantapur ..	Timber	373½	1,009	1,009	
	Palmyra trees	35	290	290	
	Miscellaneous trees	43	108	108	
	Trees on lands given on patta ..	..	846	846	
	Total, Timber ..	451½	2,253	2,253	II (*a*).
	Firewood	907½	641	641	
	Deadwood	470½	627	627	
	Total, Firewood ..	1,378	1,268	1,268	II (*b*).
	Bamboos	502	429	429	
	Total, Bamboos ..	502	429	429	II (*c*).
	Grass	..	16	16	
	Total, Grazing ..	..	16	16	II (*d*).
	Tangedu bark	828	7,594	7,594	Includes Rs. 2,626, amount of deposit.
	Do. leaves	2,864½	1,790	1,790	
	Palmyra leaves	54	37	37	
	Amroy contract	..	2,598	2,598	
	Jolli do.	..	2,537	2,537	
	Total, Minor Produce ..	3,746½	14,556	14,556	II (*e*).
	Grand Total ..	6,078	18,522	18,522	
Nilgiris ..	Teak trees	209½	1,309	1,309	
	Miscellaneous trees	789	1,408	1,408	
	Total, Timber ..	998½	2,717	2,717	II (*a*).
	Firewood	1,469	3,273	3,273	
	Charcoal	7	67	67	
	Total ..	1,476	3,340	3,340	II (*b*).
	Add outstanding from previous year..	..	..	194	
	Total, Firewood and Charcoal ..	1,476	3,340	3,534	
	Bamboos	1,603	2,056	2,056	
	Total, Bamboos ..	1,603	2,056	2,056	II (*c*).
	Grazing lease	..	165	165	
	Do. fees	..	309	309	
	Fodder grass	595	323	323	
	Total, Grazing and Fodder Grass ..	595	797	797	II (*d*).

Timber and other produce cut, collected, and removed from the forests, &c.—*cont.*

District.	Produce removed. Description.	Number or quantity.	Amount of revenue.	Amount actually realized during the year.	Remarks.
		TONS.	RS.	RS.	
Nílgiris—*cont.*	Vembadam bark	3	62	62	
	Canes	20	40	40	
	Reeds	4	13	13	
	Wattle	3	14	14	
	Wild date leaves	2	3	3	
	Goa sticks	2	4	4	
	Coffee berries .. .. Auction.	..	7	7	
	Manure	25	25	25	
	Total, Minor Produce ..	59	168	168	II (*e*).
	Grand Total ..	4,731½	9,078	9,272	
	Grand Total of Revenue of the Northern Circle under II.	184,947½	4,44,524	4,43,904	
Grand Total excluding outstandings from previous year.	II *a*		1,19,877	1,19,871	
	b		1,00,475	1,00,470	
	c		44,371	44,370	
	d		60,922	59,773	
	e		1,18,879	1,18,289	
	Total ..		4,44,524	4,42,773	
Add outstanding from previous year as per Form No. 66			1,209	1,131	
	Total ..		4,45,733	4,43,904	
Deduct amount realized during the year			4,43,904		
Balance outstanding on 31st March 1888 as per Form No. 66 ..			1,829		

Annual Form No. 73-A.

Forest Department, Madras, Northern Circle.

Abstract showing the value of timber and other produce at sale depôts, for the year 1887-88.

District.	Description of timber or produce.	On hand at commencement of the year.			On hand at end of the year.			Difference in value.	
		Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favor of the year.	Against the year.
				Rs.			Rs.	Rs.	Rs.
Ganjam ..	Sál logs	274	2,906	1,454	664	4,843	2,425	971	..
	Do. sleepers ..	492	7	830	150	269	125	..	705
	Do. scantlings ..	..	..	..	50	151	75	75	..
	Do. slabs, &c. ..	1,687	..	100	..	..	..	..	100
	Do. poles	19	47	10	19	47	10	..	..
	Do. rafters ..	..	..	..	174	196	80	80	..
	Piasál logs	5	44	25	10	97	50	25	..
	Blackwood logs ..	4	28	19	1	3	2	..	17
	Miscellaneous logs..	264	3,531	883	306	4,085	1,640	757	..
	Do. planks and rafters ..	883	139	25	2,475	93	30	5	..
	Ebony	5	32	32	3	46	50	18	..
	Demarcation posts..	2,038	1,437	127	..	..	..	..	127
	Fuel &c.	Tons 14	700	5	Tons 7	..	3	..	2
	Minor produce ..	Mds. 903	or 10 Tons	113	807	or 9 Tons	100	..	13
	Total ..	..	Tons 187	3,628	..	Tons 206	4,590	967	..
Godâvari ..	Ironwood	..	..	..	1	15	11	11	..
	Miscellaneous ..	..	..	..	3	29	19	19	..
	Total ..	..	..	..	4	44 or Ton 1	30	30	..
Nellore ..	Miscellaneous poles and sleepers ..	121	122	38	1	2	1	..	37
	Firewood	Tons 1,810	..	13,113	Tons 470	..	5,752	..	7,361
	Rattans	Bdls. 21	Mds. 10½	121	35 bdls. or 24½ mds.		201	80	..
	Suratichekka ..	Mds. 82	..	210	..	..	..	..	210
	Sarsaparilla ..	..	..	..	Mds. 5	..	15	15	..
	Total ..	Tons 1,813½	..	13,482	Tons 470½	..	5,969	..	7,513
Cuddapah.	Redwood roots and stumps	Tons ½	12	5	Tons 387½	18,594	6,585	6,580	..
	Gallnuts	Mds. 2,252	..	1,261	Mds. 5,155	or 57¼ Tons	2,965	1,704	..
	Tangedu bark ..	„ 112	..	112	..	..	..	..	112
	Total ..	Tons 26½	..	1,378	Tons 444½	..	9,550	8,172	..
Kurnool ..	Gallnuts B	Mds. 1,530	Tons 17	191	1,530	Tons 17	191	..	..
	Total ..	Tons 17	..	191	Tons 17	..	191	..	..
Bellary ..	Fuel	..	..	..	Tons 11	..	60	60	..
	Kapila dye	..	..	..	lbs. 20	..	9	9	..
	Total ..	..	..	..	Tons 11	..	69	69	..
Anantapur.	Palmyra	..	..	..	1	2	1	1	..
	Minor produce ..	Mds. 1,938½	Tons 21½	2,353	Mds. 1,898	Tons 21	2,271	..	82
	Total ..	Tons 21½	..	2,353	Tons 21	..	2,272	..	81
Nilgiris ..	Acacia planks and rafters	447	447	826	211	211	53	..	773
	Drag poles	..	..	..	487	487	61	61	..
	Firewood and charcoal	Tons 499	..	3,238	Tons 231	..	1,566	..	1,672
	Total ..	Tons 508	..	4,064	Tons 245	..	1,680	..	2,384
	Grand Total ..	..	Tons2,573	25,091	..	Tons1,415	24,351	..	740

ANNUAL FORM No. 73-B.

Forest Department, Madras, Northern Circle.

Return of stores, tools, and plant on 1st April 1888.

District.	Description of stores, &c.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.		Remarks.
		Number.	Value.	Number	Value.	In favor of the year	Against the year.	
			Rs.		Rs.	Rs.	Rs.	
Direction ..	Surveying and other instruments.	22	531	15	184	..	..	Addition of 1 brass parallel ruler and transfer to other districts of 1 plane table and 7 prismatic compasses.
	Furniture	71	882	75	945	..	..	
	Letter-weighing scales with weights.	..	..	2	108	..	..	
	Miscellaneous	3	39	3	39	..	..	
	Total ..	96	1,452	95	1,276	..	176	
Ganjam ..	Bungalow, head-quarters.	1	1,669	1	1,669	..	..	Russellkonda.
	Bungalow, inspection ..	4	750	7	2,420	..	..	Surada, Berhampore, Mojjegedo and Kurcholy.
	Inspection huts	12	585	8	410	..	..	4 fell down.
	Guards' sheds	3	20	3	345	..	..	Gullery and Tilsingi.
	Furniture	35	336	36	303	..	..	
	Tools	222	323	219	316	..	..	3 unserviceable.
	Surveying and other instruments	27	198	28	243	..	..	
	Miscellaneous	1	8	1	8	..	..	
	Total ..	305	3,787	303	5,714	1,927	..	
Vizagapatam.	Sheds	2	45	2	45	..	..	
	Tools	5	2	5	2	..	..	
	Surveying and other instruments	17	162	17	162	..	..	
	Furniture	25	228	25	228	..	..	
	Total ..	49	437	49	437	..	..	
Godávari ..	Sheds	10	132	11	144	..	..	
	Rest-house	..	..	1	327	..	..	Wuddagudiem.
	Surveying and other instruments.	21	155	22	169	..	..	
	Tools	312	252	313	257	..	..	
	Furniture	27	344	55	496	..	..	
	Miscellaneous	35	83	62	83	..	..	
	Boat	..	..	1	1,500	..	..	
	Scales with tripods ..	..	..	3	413	..	..	
	Total ..	405	966	468	3,389	2,423	..	
Kistna ..	Surveying and other instruments.	16	192	24	575	..	..	
	Tools	246	145	270	174	..	..	
	Furniture	30	231	20	215	..	..	Rest issued to the Forest Settlement Officer.
	Boat's (Dingy)	..	..	2	280	..	..	
	Miscellaneous	..	..	10	33	..	..	
	Letter-weighing scales ..	..	..	1	10	..	..	
	Total ..	292	568	327	1,287	719	..	
Nellore ..	Cash safes	4	210	4	210	..	..	
	Scales and weights, sets.	7	744	7	744	..	..	
	Furniture	97	567	*96	565	..	..	* 1 Lantern out of use.
	Boxes	19	30	19	30	..	..	
	Tools	480	377	†457	360	..	..	† 57 worn out and 34 received during the year.
	Surveying and other instruments	45	274	46	275	..	..	
	Miscellaneous	‡16	8	..	..	..	..	‡ Worn out.
	Tramway	3	15,574	3	15,574	..	..	
	Boats	6	2,514	9	4,018	..	..	
	Total ..	677	20,298	641	21,776	1,478	..	

Return of stores, tools and plant on 1st April 1888—*cont.*

District.	Description of stores, &c.	On hand at commencement of the year.		On hand at end of the year.		Difference in value.		Remarks.
		Number.	Value.	Number.	Value.	In favor of the year.	Against the year.	
			Rs.		Rs.	Rs.	Rs.	
Cuddapah ..	Bungalow, inspection ..	4	15,650	5	16,711	..	..	Kódúr, Sanipaya, Balapalle, Horsley-konda and Mogili-penta.
	Ranger's house	4	1,620	5	2,454	..	..	Kódúr, Sidhout, Rájampet and Badvél. A new house at Kódúr was built at a cost of Rs. 834.
	Office house	1	200	1	200	..	..	Kódúr.
	Sheds	61	1,085	75	1,414	..	..	
	Surveying and other instruments.	33	185	37	346	..	..	
	Tools	507	584	518	588	..	..	
	Furniture	59	580	69	645	..	..	
	Beam scales with weights.	..	..	1	155	..	..	
	Total ..	669	19,904	711	22,513	2,609	..	
Kurnool ..	Bungalow, head-quarters.	1	644	1	7,090	..	..	
	Bungalow, inspection ..	19	7,447	19	7,447	..	..	
	Rangers' houses ..	4	1,476	4	1,476	..	..	
	Sheds	14	1,065	19	1,889	..	..	
	Furniture	30	162	30	162	..	..	
	Tools	363	614	376	724	..	..	
	Surveying and other instruments.	26	214	28	341	..	..	
	Cash chest	1	8	1	8	..	..	
	Scales with weights ..	1	50	1	50	..	..	
	Total ..	459	11,680	479	19,187	7,507	..	
Bellary ..	Ranger's house	1	460	1	460	..	..	Sandúr.
	Surveying and other instruments.	17	125	24	188	..	..	
	Furniture	14	201	17	219	..	..	
	Tools	183	180	186	211	..	..	
	Scales with weights up to 500 lb.	1	272	1	272	..	..	
	Total ..	216	1,238	229	1,350	112	..	
Anantapur ..	Bungalow	1	440	1	500	..	..	Collapsed.
	Head-quarters bungalow.	1	6,469	1	6,469	..	..	
	Sheds	15	173	15	173	..	..	
	Surveying and other instruments.	42	126	42	*185	..	..	* Cost of 1 plane table, complete, with stand, omitted in the last year's return, is now included.
	Furniture	35	357	35	357	..	..	
	Cash safe with padlock.	1	12	1	12	..	..	
	Tools	144	147	147	281	..	..	
	Total	239	7,724	242	7,977	253	..	
Nílgiris ..	Sheds	26	3,232	36	3,662	..	..	
	Surveying and other instruments.	35	341	35	341	..	..	
	Charcoal kiln	1	582	1	582	..	..	
	Furniture	42	534	42	534	..	..	
	Tools	621	1,500	756	1,718	..	..	
	Elephants	2	3,000	2	3,000	..	..	
	Do. calf	1	500	2	700	..	..	
	Miscellaneous.							
	Chains of elephants ..	8	240	8	240	..	..	
	Total ..	736	9,929	882	10,777	848	..	
	Grand Total ..	4,143	†77,983	4,426	95,683	17,700	..	† Not 77,985 as erroneously given in the return for 1886-87.

ANNUAL FORM No. 74.

Forest Department, Madras.

Statement of Elephants in the Northern Circle during the year 1887-88.

PART I.

Elephants in possession of the Reporting officers throughout the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of monthly keep including servants and food.		Remarks.
				Rs. A. P.	
Nílgiris ..	1. Lakshmi ..	Transferred from the Anamalais during 1882.	April 1887	159 10 0	
	2. Chinna Lakshmi..		May ,, ...	107 8 0	
	3. Mahabaksh (calf).		June ,, ...	109 2 0	
			July ,, ...	108 10 0	
			August ,, ...	143 14 0	
			September ,, ...	40 0 0	
			October ,, ...	144 11 1	
			November ,, ...	165 12 2	
			December ,, ...	116 4 5	
			January 1888	..	
			February ,, ...	187 8 6	
			March ,, ...	46 4 8	
			Total ..	1,329 4 10	

PART II.

Elephants received in the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.		Remarks.
				Rs. A. P.	
Nílgiris ..	1 Calf Elephant ..	Born on 22nd February 1888.	.....	..	

PART III.

Elephants gone off the list during the year.

District.	Names.	When purchased or otherwise obtained by Government.	Cost of keep including servants and food.	How disposed of.

Nílgiris—*Nil.*

GOVERNMENT OF MADRAS.

REVENUE DEPARTMENT.

READ—the following Proceedings of the Board of Revenue (Land Revenue), dated 30th November 1888, Forest No. 625:—

THE HON. W. S. WHITESIDE.

Read—the following letter from A. W. PEET, Esq., Acting Conservator of Forests, Northern Circle, to the Secretary to the Commissioners of Land Revenue, dated Madras, 18th July 1888, No. 1251:—

I have the honor to forward the annual Forest Administration Report for the Northern Circle for the year 1887-88.

ENCLOSURE.—Administration Report for 1887-88.

Read—the following letter from J. W. CHERRY, Esq., Acting Conservator of Forests, Southern Circle, to the Secretary to the Commissioners of Land Revenue, dated Madras, 28th September 1888, No. 1832:—

I have the honor to submit the Annual Report of the Southern Circle for the year 1887-88, together with the prescribed appendices, excepting the one for exotics, which will be separately printed and forwarded in time to be submitted with the report to Government.

2. The report has this year been printed before submission to the Board in accordance with their instructions on last year's report. This has caused some delay, which I trust will not recur next year as we shall be in a better position to judge and allow for the time the printing takes.

3. The returns took a long time to compile, print and correct, and did not reach me for the commencement of the report, until the 8th of August, several references having had to be made to District Forest-officers regarding the correctness or meaning of their figures.

4. I have endeavoured to supply in this report all the omissions noticed by the Government in the last report, but it has not been easy as the Board's orders on the last Government review only reached me on the 6th of June or nearly a month after the District Forest-officers had submitted their reports.

5. I trust the Board will not think I have introduced too many abstracts into the report. The returns are so full of items and explanatory notes that I found it difficult to describe matters except through such abstracts, and I was anxious to show to District Forest-officers (with view to facilitating future reports) in what form the informations for their several districts would be useful.

6. But for the orders which, I am told, exist, forbidding districtwar abstracts, I should have given the figures for each district in all cases, for it is very important that District Forest-officers should know how this office has dealt with the figures pertaining to each of their districts, and it will be very useful for the Conservator, when on inspection tours, to have such district abstracts at hand to refer to.

7. If District Forest-officers would give talukwar or range abstracts, the Conservators totals for each division, and the Board totals for each circle, it would simplify comparisons and conclusions.

ENCLOSURE.—Administration Report for 1887-88.

Read—the following letter from A. W. PEET, Esq., Acting Conservator of Forests, Northern Circle, to the Secretary to the Commissioners of Land Revenue, dated Madras, 20th October 1888, No. 1611 :—

Referring to the Board's Proceedings of the 8th January 1887, No. 9, I have the honor to forward, as an accompaniment to the Annual Report for 1887-88, a map of the Presidency (scale 1 inch = 16 miles) showing—

(1) Reserved forests under section 16.
(2) Proposed reserved forests under section 4.
(3) Reserved lands under section 26.

ENCLOSURE.—Map showing reserved forests, proposed reserved forests, and reserved lands.

Resolution—dated 30th November 1888, Forest No. 625.

The Board submit to Government the forest report for 1887-88.

2. The staff of the department stood at the following strength, during the year, showing a slight increase in foresters and forest guards on the scale of the previous year :—

(*a*) Controlling—

Conservators	Northern Circle	1	2
	Southern do.	1	
Deputy Conservators	Northern do.	4	11
	Southern do.	7	
Assistant do.	Northern do.	7	13
	Southern do.	6	

(*b*) Executive—

Sub-Assistant Conservators	Northern do.	6	12
	Southern do.	6	
Rangers	Northern do.	21	51
	Southern do.	30	
Foresters	Northern do.	50	123
	Southern do.	73	
Forest guards	Northern do.	348	707
	Southern do.	359	

The Conservators were Mr. Peet in the Northern Circle acting for Mr. Gamble on leave, and Colonel Campbell Walker and for three months Mr. Cherry, in the Southern Circle.

The average areas of charges in the two circles were as under :—

	Southern Circle.		Northern Circle.	
	Total area.	Reserve area.	Total area.	Reserve area.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Conservator	62,980	7,555	78,700	7,180
District Forest-officer	4,845	581	7,870	718
Range officer	913	109	1,140	104
Forest guard	175	21	226	20

3. The gross receipts of the year amounted to Rs. 13,74,920 and the charges to Rs. 11,18,212, leaving a *plus* balance of Rs. 2,56,708.

4. The area under the control of the department was increased during the year by 2,338 square miles, (in addition to the 2,492 square miles, by which the Northern Circle figures of last year have been raised, owing, it is stated, to rectification of areas and the inclusion among "reserved lands" of lands notified for settlement under section 4.) A very large area of waste land has thus been added, and the total area now under control amounts to 17,000 square miles. The advisability of still further adding to it from districts, in which the percentage of forest reserve is small, is now under consideration, and with it the connected question of village forests and the organizing of a complete forest system for each district will be disposed of.

The subjoined table shows the changes that occurred in the several classes of forests :—

—	Area on 31st March 1887			Added during the year 1887-88.		
	Northern Circle.	Southern Circle.	Total.	Northern Circle.	Southern Circle.	Total.
1	2	3	4	5	6	7
	sq. mls.	sq. mls.	sq. mls.	sq. mls.	sq. mls.	sq. mls.
A. Reserved forests under Act ..	474 +1	1,838	2,313	150½	564	714½
B. Forests reserved under previous rules	786	280	1,066	..	..	..
C. Leased forests	198½	..	198½	..	..	..
D. Reserved lands	3,838 +2,492	3,655	9,985	227	2,088	2,315
E. Other forests	..	1,099	1,099	..	166	166
Total ..	7,789½	6,872	14,661½	377½	2,818	3,195½

—	Excluded during 1887-88.			Area on 31st March 1888.		
	Northern Circle.	Southern Circle.	Total.	Northern Circle.	Southern Circle.	Total.
	8	9	10	11	12	13
	sq. mls.	sq. mls.	sq. mls.	sq. mls.	sq. mls.	sq. mls.
A. Reserved forests under Act ..	..	..	..	625½	2,402	3,027½
B. Forests reserved under previous rules	16½	36	52½	769½	244	1,013½
C. Leased forests	..	..	..	198½	..	198½
D. Reserved lands	199½	590½	790	6,357½	5,152½	11,510
E. Other forests	..	15	15	..	1,250	1,250
Total ..	216	641½	857½	7,951	9,048½	16,999½

The whole of the 198½ square miles shown under "leased forests" belongs to the Northern Circle; the 46 square miles in the Southern Circle are shown, 29 square miles under "reserved forests" and 17 square miles under "reserved lands."

Form 59 B of the Northern Circle shows 17½ square miles as having been transferred to 59 A (reserved forests). On comparing the two forms, however, it is observed that only 16½ square miles have been so transferred, this area too being identical with part of the extent transferred from form 59 C (reserved lands). From this it is evident that the two forms are not exclusive of each other as they ought to be. About half a square mile (342 acres), has been shown in 59 A as constituting the Moyar reserved forest in the Nílgiris: but the area does not appear to have been transferred from either 59 B or 59 C.

150½ square miles of reserved lands in the Northern Circle and 564 in the Southern were notified under section 16 as against 328 and 313 in 1886-87.

At paragraph 11 of his report, the Northern Circle Conservator says that 166 square miles had to be *deducted* from the figures given last year under reserved lands in Ganjam. No such figures were, however, given last year, and instead of there being a *deduction* of 166 square miles there has been an *addition* of 554 square miles.

The following table compares the areas under each class of forest at the close of the year :—

—	Reserved forests.		Reserved lands.		Leased and other forests.	
	1886-87.	1887-88.	1886-87.	1887-88.	1886-87.	1887-88.
	sq. mls.	sq. mls.	sq. mls.	sq. mls.	sq. mls.	sq. mls.
Northern Circle ..	474 + 1	625½	3,838 + 2,492	6,357½	984½	968
Southern do. ..	1,838	2,402	3,655	5,152½	1,379	1,494
Total ..	2,313	3,027½	9,985	11,510	2,363½	2,462

4. (*a*) *Settlement.*—The subjoined abstract shows the progress made in this direction :—

	Unsettled.		Settled.	Balance
	Balance on 31st March 1887.	Added during 1887-88.	During 1887-88.	To be settled.
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.
Southern Circle	1,725	1,141	564	2,302
Northern do.	6,114¼	227	199½	6,142¼
Total ..	7,839¼	1,368	763½	8,444¼

Of the 2,302 square miles shown as balance in the Southern Circle, 794 have been settled and reported on but not declared; and 684 settled but not reported on. Similar information is not given for the Northern Circle, but the Conservator states that over a hundred blocks had been finally settled and were awaiting notification under section 16.

The backwardness of settlement is therefore more apparent than real and the current year should see a large increase to the settled area, a great deal due to work which was done in the year under report. Settlement work is almost complete in the Nílgiris and is making good progress in Salem, Cuddapah and Nellore: large areas in Kurnool and Godávari are virtually completed. The disposal of the numerous claims to trees and lands, included in the Sríharikót reserve, has caused much delay, as have also the shrotriem and zemin claims in the same district: progress in Bellary and Anantapur, mainly owing to the two districts being placed under one District Forest-officer, who had not time to attend to settlement, was slow.

The greater part of the area is being settled by the four Special Forest Settlement-officers appointed to the work.

District details of the work done during the year will be found in the subjoined table :—

Southern Circle.	Area already settled.	Balance at the close of the year 1886-87.	Notified under section 4 in 1887-88.	Notified under section 16 in 1887-88.	Balance to be settled.	Northern Circle..	Area already settled.	Balance at the close of the year 1886-87.	Notified under section 4 in 1887-88.	Notified under section 16 in 1887-88.	Balance to be settled.
Chingleput	63	35	15	24	26	Ganjam	..	540½	..	8½	532
North Arcot	195	171	314	..	488	Vizagapatam	..	..	8	..	8
South Arcot	3	217	14	59	172	Godávari	..	646½	65½	+ 4	708
Salem	172	525	111	388	248	Kistna	..	691½	15½	13 / + 8	686
Trichinopoly	31	148	..	13	135	Nellore..	1½	511	6½	37	480½
Tanjore	..	7	12	..	19	Cuddapah	272	1,573	..	+37 / 78	1,458
Coimbatore (North) ..	99	..	470	..	470	Kurnool	..	1,677	41½	..	1,718½
Coimbatore (South) ..	566	..	..	..	..	Bellary	..	198½	3	..	201½
Madura	287	95	108	16	187	Anantapur	13½	156½	87	..	243½
Tinnevelly	287	252	50	..	302	Nílgiris	188	120	..	14	106
Malabar (North) ..	118	143	..	..	143						
Malabar (South) ..	16	24	19	24	19						
South Canara	1	105	28	40	93						
Total ..	1,838	1,725	1,141	564	2,302	Total ..	475	6,114¼	227	150½ / +49	6,142¼

5. *Demarcation.*—In the Southern Circle 1,701 miles were demarcated at a cost of Rs. 11,613, the average per mile being Rs. 6-13-2 against Rs. 7-11-2 last year; in the Northern Circle 1,645 miles were done at a cost of Rs. 27,225, the average per mile being Rs. 16-8-9. The style of demarcation varies from an actual wall to simple posts, but the usual form appears to be that of cleared lines with cairns at the angles. In the Southern Circle the planting of palmyras and cuttings of banyans and other trees along the boundary line, is being tried and, as a means of showing out the boundary, should be very effective: with the style the cost, too, varies; but except in

Cuddapah and Anantapur, where the excess is reported to be due in the one case to fraud and in the other to mismanagement, it does not appear to be in any case excessive. In the Northern Circle, the work paid for was more than double that paid for in the Southern Circle; Ganjam Rs. 6,535, 138 miles; Cuddapah Rs. 5,650, 177 miles; Kistna Rs. 4,827, 206 miles; Nellore, Rs. 3,798, 429 miles, coming first in the former and Salem in the latter. The possibility of a uniform system of demarcation is being considered, but meanwhile, both Conservators should draw as distinct a division as possible between the rough and the completed demarcation and between the creation of new lines and the upkeep of old ones.

The Conservator, Southern Circle, has made an effort to estimate the work remaining to be done, but his data are too rough for the estimate to be of any use.

6. *Survey.*—Only one block, a fire-protected one, was surveyed in the Northern Circle. In the Southern Circle some departmental work was done, chiefly in the direction of outline surveys of reserved blocks; but though useful as preliminary work, it is not relied on as being very accurate; some 117 square miles are estimated to have been surveyed in this way, at a cost of Rs. 5,864 or a little over Rs. 50 a square mile.

The following work was also done by the Survey of India Party, viz. :—

Madura. { Topography of 245 square miles on the 1-inch scale.
Do. of 8 square miles on the 4-inch scale.

Tinnevelly.—Triangulation in advance of 1,000 square miles;
and a bill for Rs. 11,000 was sent in for it. Almost the whole of the topography, however, is on too small a scale, to be of use in carrying out working-plans and will have to be repeated on the 4-inch scale. This will be done by the same party, to whom, it was decided after considerable discussion throughout the year, to entrust the whole of the forest survey work of the Presidency for the future.

A forest atlas of the Presidency on a small scale, showing reserved forests, proposed reserved forests and reserved lands, was prepared during the year and supplied to Government, to Collectors and to Conservators.

7. *Working-plans.*—Settlement is not yet sufficiently advanced for much to be accomplished in the way of working-plans; a commencement, however, of getting things into order has been made in some districts; in the Northern Circle, the Nílgiri plantations, the Sandúr leased forest and the Balapalle forest continued to be worked on the preliminary plans already drawn up; a cyclone blew down so many trees as to alter the working of the plan drawn up for the Sríharikót jungles, and the plan suggested for some of the Kistna blocks will have to be altered, now that it is probable that the railway will be worked with Singareni coal, instead of with fuel; the rough plan drawn up for Ganjam was not acted upon during the year and a fresh one is being drawn up, the chief features of which are rest, either complete or partial, for reserves overworked under the permit system, and selection fellings by blocks in the remainder. In the Southern Circle, existing plans were worked upon in North Arcot (996 acres), Salem, Trichinopoly and South Coimbatore; new plans were submitted to Government for parts of the Bolampatti range; a plan was matured for an area of 21 square miles in Trichinopoly, and other plans are under discussion. In future reports, Conservators are requested to show, in statement form, the area under working-plans: this is the real test of forest organization, but it cannot be gathered from the present reports.

8. *Fire-protection.*—The subjoined table shows the area attempted and the area burnt in each circle, as also the cost incurred :—

Northern Circle.

Districts.	Area attempted.	Burnt.	Expenditure.	Cost up to end of year.	Since when protected.
	SQ. MLS.	SQ. MLS.	RS.	RS.	
Ganjam	70¾	1½	1,622	2,682	1885
Vizagapatam	..	..	..	..	..
Godâvari	115	43¼	98	98	1887 & 1888.
Kistna	36	..	804	3,106	1884 & 1885.
Nellore	117¼	7¼	376	641	1885.
Cuddapah	318	22	4,334	21,739	In different years beginning from 1867.
Kurnool	30	3½	275	2,755	1884 & 1887.
Bellary	274½	19½	3,140	10,708	Different years beginning from 1883.
Anantapur	79½	⅛	1,234	5,270	1884, 1885 & 1886.
Nilgiris	279	4¼	2,566	10,699	Different years from 1883.
Total ..	1,320	101	14,449	57,698	

Southern Circle.

Districts.	Area attempted.	Burnt.	Expenditure.	Cost up to end of year.	Since when protected.
	SQ. MLS.	SQ. MLS.	RS.	RS.	
Chingleput	24¼	ACS. 21	283	2,166	1883, 1884, 1887 and 1888.
North Arcot	488	SQ. MLS. 7½	2,423	13,451	Various years from 1879.
South Arcot	121½	„ 1½	1,232	4,423	Various years from 1877.
Salem	48¼	..	2,471	12,637	Various years from 1881.
Trichinopoly	68¾	ACS. 50	676	1,649	Various years from 1885-86 and 1887-88.
Tanjore	..	..	..	..	..
Coimbatore, North	3¾	..	278	977	Various years from 1879.
Coimbatore, South	25¾	..	1,791	5,822	Various years from 1882-83.
Madura	283¾	SQ. MLS. 1	4,600	18,668	Various years from 1882-83.
Tinnevelly	77¼	SQ. MLS. 2¾	3,030	7,771	Various years from 1884-85.
Malabar, North	52½	„ 2¾	1,136	3,283	Various years from 1882-83 and 1887-88.
Malabar, South	43½	..	1,794	8,561	Various years from 1860-61.
South Canara	13	ACS. 2	988	1,619	Various years from 1882-83.
Total ..	1,250	SQ. MLS. 15½ and ACS. 73	20,712	81,027	

ABSTRACT.

Northern Circle	1,320	101	14,449	57,698	
Southern do.	1,250	15½	20,712	81,027	
Total ..	2,570	116½	35,161	1,38,725	

From the above it will be seen that the percentage of failures to area attempted is 7·65 for the Northern Circle and 1·14 for the Southern. Out of 1,320 square miles attempted in the former circle, 612 were under special protection and the balance under the ordinary staff. In the Southern Circle, the figures were respectively 1,250, 665 and 585 square miles.

The total cost of operations amounted to Rs. 14,449 for the Northern Circle and Rs. 20,712 for the Southern Circle, giving an average of Rs. 10-9-0 per square mile for the former and Rs. 16-5-0 for the latter circle.

Fire protection is most forward in North Arcot 488, Cuddapah 318, Madura 283, the Nílgiris 279 and Bellary 274 square miles; but in all districts, except Vizagapatam and Tanjore, a beginning has been made, and the percentage of successes to failures was in most cases fair. Forty-five square miles were burnt in Godávari, but early in the season, so that much damage was not done; two considerable fires occurred in Ganjam and fires are reported from North Arcot and Tinnevelly. The protection of areas by the ordinary staff was, if the figures are reliable, most successful, and the Board would like to have been furnished with some idea of the forest growth on these areas. The figures compare with those of last year as follows:—

Circle.	1886-87.			1887-88.		
	Area attempted.	Area protected.	Cost.	Area attempted.	Area protected.	Cost.
	SQ. MLS.	SQ. MLS.	RS.	SQ. MLS.	SQ. MLS.	RS.
Northern	1,081	1,043	16,811	1,320	1,219	14,449
Southern	1,168	1,016	12,133	1,250	1,234	20,712
Total ..	2,249	2,059	28,944	2,570	2,453	35,161

In regard to unprotected areas, the information given is indefinite: in Godávari firing is universal; in Kistna 10 per cent. escapes; in Kurnool 15 per cent; in the Southern Circle all areas not reserved are burnt. Even if accurate, the figures are misleading, for even if an area escapes one year, it is probably burnt the next, all the more destructively. The Board do not believe that any area in the ordinary dry forests escapes for a series of years.

It is observed that the statements made in the body of the Northern Circle report in respect of fire protection do not all agree with the information furnished in the return. Thus, while form 62 shows 200 square miles as having been specially protected and 118 as having been under ordinary protection in Cuddapah, the report gives the figures at 214 and 101, respectively. Again, in Bellary only 103 square miles are said to have been attempted, but the form gives the figure at 274.

As per report.	Specially protected.	Ordinarily protected.
	ACS.	ACS.
1886-87 ...	259,567	390,497
1887-88 ...	301,282	351,528
Difference ...	+ 41,715	— 38,969

It may also be remarked that in bringing forward the figures of last year, a great many alterations * have been made, which affect the classified totals. The explanation given is that errors of omission and commission had crept into the last year's return and that they have been corrected now.

	ACS.
Area omitted in 1886-87	2,876
Deduct area given in excess in 1886-87.	130
	2,746

9. *Grazing.*—The receipts under this head amounted to Rs. 59,773 in the Northern and Rs. 46,038 in the Southern Circle.

District details are given below:—

Northern Circle.

	RS.
Ganjam	...
Vizagapatam	...
Godávari	947
Kistna	38,711
Nellore	12,784
Cuddapah	1,227
Kurnool	4,888
Bellary	403
Anantapur	16
Nílgiris	797
Total ...	59,773

Southern Circle.

	Rs.
Chingleput	1,244
North Arcot	30
South Arcot	2,226
Salem	...
Trichinopoly	5,140
Tanjore	593
Coimbatore (North)	29,049
Coimbatore (South)	5,584
Madura	1,524
Tinnevelly	609
Malabar (North)	...
Malabar (South)	27
South Canara	12
Total ...	46,038

As in the last year, the revenue under this item was largest in Kistna. In Nellore, the kanchas (pasture lands) were taken up by the department for the first time and Rs. 12,784 realized. It is expected that the item will show a steady increase in future years. In Kurnool, Mr. Hooper tried the system of grazing permits with marked success. 75,660 head of cattle were grazed and a revenue of Rs. 4,888 made. The rate was only an anna per head, but it is proposed to double it this year. It is satisfactory to note that the people take to the system kindly, but too rapid an increase of fees must not be attempted. In Anantapur, 25,945 head loads of grass were removed, apparently free of payment, from the Muchukota forest. In the Southern Circle, the grazing revenue was largest in North Coimbatore. No fees were levied in North Arcot, Salem, Malabar and South Canara, but it is intended to levy them from next year in the first two districts. As regards the other two, it is doubtful whether in view of the large extent of private forests available for the purpose and of the limited number of local cattle, the State forests will ever be indented on for grazing.

The Conservators' remarks on this subject are interesting and show that the tact and caution exercised by them in the matter are bearing fruit, that grazing is being gradually brought under control and that the fee system is being successfully introduced, without complaint on the part of the ryots: the same tact and caution must continue to be exercised and progress in the direction of the 4 lakhs of revenue, which the Conservator, Southern Circle, looks forward to, must be slow: forest conservancy must not be lost sight of in the desire to make revenue and the exclusion of goats altogether—some 23,000 were among the cattle licensed in Kurnool—and the restriction of other cattle to particular blocks, in rotation, are matters which will give Conservators and Collectors room for the exercise of much discretion.

10. *Police.*—The prosecutions for forest offences instituted during the year and their disposal are exhibited in the subjoined statement:—

Circle.	Pending from 1886-87.	In 1887-88.	Total.	Convictions.		Acquittals.		Compounded.		Total.	
				No.	Persons.	No.	Persons.	No.	Persons.	No.	Persons.
Northern Circle.	103	1,455	1,558	888	2,122	339	1,055	206	655	1,433	3,832
Southern do.	156	1,644	1,800	791	1,646	230	925	581	1,575	1,627	4,305
				withdrawn.		25	159				
						255	1,084				
Total ..	259	3,099	3,358	1,679	3,768	594	2,139	787	2,230	3,060	8,137

Percentage of convictions to total cases.

—	Pending.	Percentage of convictions to total disposed of.	Percentage of compounded cases to total disposed of.
Northern Circle	125	61·9	14·3
Southern do.	173	48·61	35·7

and the following statement compares the results of the year with those of previous years :—

—	Cases.	Convictions.	Acquittals.
1885-86	2,269	1,280	832
1886-87	2,493	1,120	543
1887-88	3,358	1,679	594

Two hundred and six cases were compounded during the year in the Northern Circle, the number of persons implicated being 655, as against 581 and 1,575 in the other circle. The compensation realized in the former circle was Rs. 1,148, which gives an average of Rs. 1-12-0 per person accused and Rs. 5-9-2 per case. The Southern Circle figures were respectively Rs. 3,271, 2-1-3 and 5-10-1. By far the largest number of cases occurred in Salem, 356 ; Trichinopoly, 344 ; then come Kistna, 331 ; Cuddapah, 280 and Vizagapatam, 216. The increase in Salem is said to be due to the increase of watchers ; the majority of these cases were compounded. It will be seen that more use was made of the power to compound in the Northern Circle compared with last year, 206 cases against 111.

The Northern Conservator has entered a compounded case as "acquitted" ; this is not understood.

11. *Roads and Buildings.*—A comparatively small amount was spent in the Northern Circle on roads : of Rs. 21,200 allotted, Rs. 6,879 only were spent, the rest being partly transferred to other heads, but mainly allowed to lapse. Most work was done in Cuddapah, where the work of making roads in the Balapalle and Seshachalam reserves was steadily continued, 10 miles for Rs. 2,520 and the Nílgiris, where steady progress was also made at a cost of Rs. 2,202 : a certain amount of tracing work was also done in Ganjam and 9 miles of road completed in Godávari. Better work was done in the Southern Circle, where Rs. 14,024 were spent, of which Rs. 4,610 were for repairs and Rs. 9,414 for new works. The chief items were the Kariar Kannai Kottai Odai road and Parapavillai bridge in Tinnevelly, the Madapalli-gulur road in North Malabar and the Dhoni road and Walayar bridge in South Malabar. Materials were also collected for the Amordi bridge in North Arcot and a number of small but useful works carried out.

In respect of *buildings* good work has been done in both circles : in the Northern Circle, Rs. 14,604 were spent and in the Southern Circle, Rs. 17,307. In Kurnool, the Forest-officer's head-quarter bungalow was completed and in Malabar the District Forest-officer's bungalow at Nilambúr was in course of construction : besides these, two range houses were completed and one begun in Cuddapah : five substantial buildings were built in Ganjam : one rest-house was completed and three others begun in Godávari : five rest houses were constructed in North Coimbatore and two in Madura : a ranger's office was built in Tinnevelly and two other buildings begun and one rest house was built in Chingleput and a number of guards' houses and tannah huts were also constructed.

The expenditure under these heads is compared in the subjoined table :—

Circle.	Roads.		Buildings.	
	1886-87.	1887-88.	1886-87.	1887-88.
	Rs.	Rs.	Rs.	Rs.
Southern Circle	9,524	14,024	15,443	17,307
Northern do.	11,219	6,879	14,461	14,604
Total ..	20,743	20,903	29,904	31,911

12. *Natural Reproduction.*—Conservators speak now with the experience of several years, and of a large area of forests, under varying degrees of protection, and they report that, given protection from fire and cattle, the natural reproduction is sufficiently strong to reclothe the ground: the rapidity of growth, of course, depends greatly on soil and rainfall, but even on the dryest and barest hill sides, it seems to be only a matter of time: the essential is complete protection, and the Conservators give numerous specific instances of successful regrowth where this has been obtained. The most valuable trees, sal, teak, Hardwickia, Pterocarpus and satinwood, as also blue-gum and casuarina are reported to be also the most vigorous reproducers, both from coppice and from seed; in regard to the latter it would be interesting to learn how far the time of the fall of the seed affects its struggle for existence. Complaint is made in some cases, that the first growth is a dense scrub of elephant grass, bushes or thorny creepers, and fears are expressed that this may kill out the young seedlings: the experiment requires to be watched; but in the dryer districts, at any rate, some such covering appears necessary to protect the young seedlings from the drought of the hot weather; and though such protection may be unnecessary for the moister forests, it seems probable that the young trees will push through it in time, while the cost of removing it would probably be prohibitive.

13. *Artificial reproduction.*—Artificial reproduction on the contrary was not satisfactory, and though in particular places plantations such as those of casuarina on the coast, or blue gum on the hills, or teak at Nilambúr, may pay, as a general rule they appear to be most unsuccessful, and anything in the shape of broadcast sowing appears to be absolutely useless.

The figures for the year show a slight increase under "plantations" and a slight decrease under "cultural operations." They are as follows:—

—	Regular plantations.		Cultural operations.		Remarks.
	1886-87.	1887-88.	1886-87.	1887-88.	
	Rs.	Rs.	Rs.	Rs.	
Northern Circle.	9,191	* 14,729	1,662	* 1,394	* As per form 60, but less than form 64 by Rs. 728 incurred on plantations and cultural operations which have proved failures or been abandoned or sold.
Southern do.	29,275	† 24,609	3,634	1,978	† Less than form 64 by Rs. 171 incurred in 1885-86, but adjusted in 1887-88.
Total ..	38,466	39,338	5,296	3,372	

The only noticeable points are the heavy loss of casuarina seedlings in Nellore, over 50,000, and Chingleput, over 13,000, and the extensive planting of palmyras in Tinnevelly, over 100,000, and Cuddapah, 30,000: the planting of teak, mahogany and bamboos was continued at Nilambúr, and seedlings of Hardwicka and Satinwood were planted out at Balapalle. The Cuddapah mahoganies are reported not to be a success.

14. *Topes.*—There were 364 topes in the Northern Circle with an area of 13,715 acres. The cost of maintenance during the year, exclusive of Rs. 163, which should have been shown in the previous year's return, amounted to Rs. 3,348.

In the Southern Circle, there were 1,281 topes, with an area of 18,883 acres: Rs. 3,381 were spent on them. In this circle some of the topes were handed over to Local and Municipal bodies, and some to the Land Revenue Department.

15. The total expenditure on plantations, cultural operations and topes amounted to Rs. 20,213 for the Northern and Rs. 30,139 for the Southern Circle. The following statement compares the year's expenditure on the improvement of forests with those of past years :—

—	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.		Total.
					Northern Circle.	Southern Circle.	
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Sowing and planting ..	66,326	70,423	63,244	64,721	20,213	30,139	50,352
Fire-protection ..	11,223	18,945	25,467	28,956	14,449	20,712	35,161
Other works	36,793	22,306	25,302	27,979	5,313	26,291	31,604
Total ..	113,342	1,11,674	1,14,013	1,21,656	39,975	77,142	1,17,117

16. *Exotics.*—The results of the experiments with exotics have been given in separate appendices. Germination from the seed of *date* fruits purchased in the bazaar was good and the plants appear to stand transplanting well; in both these respects, they are fully equal to the specially-imported seed and offsets; of the latter, 417 are alive of the 517 received in the Southern Circle in 1886-87, and are said to be looking healthy: the difference in the percentage of casualties even in plantations in the same district, as in Tanjore, seems to show that some of the loss was avoidable: the dates are reported to do better on the sandy soil of the East, than in the wet climate of the West Coast. Nothing is said about fruiting, and the formation of plantations on an extended scale was postponed to the present year. Wherever they have had a good soil and moist climate, *mahoganies* have done well: in Nilambúr, a tree, 14 years old, is 71 feet high and 46 inches in girth, at breast high; in the Kullar range, trees planted in 1885-86 have attained a height of from 10 to 14 feet; in Wynaad, plants planted out in the year, average 3½ feet in height, and in Trichinopoly, plants obtained in 1886, range from 8 to 11½ feet high; in poor and dry soil, the growth is not so good, and in Srísharíkót the plantation is said to be a failure; as with the dates, much of the loss appears to be due to want of either care or experience in transplanting and tending, and is probably avoidable; the plants suffer badly from borers and beetles; in private gardens in Madras, *e.g.*, Mr. H. C. King's, they grow luxuriantly.

The giant *bamboos* in Wynaad made vigorous growth: the various *rubber* plants and the Ipecacuanha there, also did well; the latter was tested by the Government Botanist and found to yield excellently. The commencement of what promises to be a successful experiment was made with Sappan wood in Wynaad, 2,000 seeds being planted out and germinating without a failure: a few *eucalypti* have grown at heights down to 2,500 feet and are said to be doing well; they seeded at Palmanér; 78 *olive* trees, a foot high, raised from seeds sent in 1886-87, are also in the Wynaad nurseries; in the same place, Lancewood seems to have been a failure.

The Conservator of Forests, Northern Circle, should arrange his report by subjects, instead of by districts.

17. *Yield and working.*—The timber returns of the Northern Circle have not been carefully prepared. The several cognate forms do not tally, and even the last year's figures have not been correctly brought forward in some instances. The Conservators, moreover, though, in accordance with the Board's instructions, they have returned the quantities collected and disposed of in tons, instead of in the various measures hitherto used, have used different factors for the conversion. Thus, while 50 cubic feet of timber make a ton in the Northern Circle, 40 are given as its equivalent in the Southern. Again, 75 cubic feet of bamboos are taken as equal to a ton in the one circle, while in the other the measurement is regulated by local circumstances. The Southern Conservator's multiples appear to have been those contained in his

Circular *re* permits, approved in Board's Proceedings, dated 10th March 1885, No. 151, Forests.

Correcting these mistakes the subjoined abstract shows the total yield of the year in the two circles. The figures are not fully available for free grants in the Northern Circle in the report for which money value is given instead of quantity:—

—	Timber.			Firewood.			Bamboos.		
	Northern Circle.	Southern Circle.	Total.	Northern Circle.	Southern Circle.	Total.	Northern Circle.	Southern Circle.	Total.
1	2	3	4	5	6	7	8	9	10
By Departmental agency ..	3,794	3,432	7,226	16,493	9,422	25,915	1,711	238	1,949
,, consumers	27,260	27,376	54,635	1,06,349	1,49,773	2,56,082	36,230	27,206	63,436
,, confiscations, &c. ..	6,550	336	3,886	150	243	393	84	28	112
,, free grants	..	1,259	1,259	..	113	113	..	569	569
Total ..	34,604	32,402	67,006	1,22,992	1,59,511	2,82,503	38,025	28,041	66,066

—	Sandalwood.			Minor produce.			Total.		
	Northern Circle.	Southern Circle.	Total.	Northern Circle.	Southern Circle.	Total.	Northern Circle.	Southern Circle.	Total.
	11	12	13	14	15	16	17	18	19
By Departmental agency ..	19	27	46	50	422	472	22,067	13,541	35,608
,, consumers	..	..	..	13,481	25,880	39,361	1,83,320	2,30,194	4,13,514
,, confiscations, &c.	..	..	..	..	65	65	3,784	672	4,456
,, free grants	..	..	..	..	110	110	..	2,051	2,051
Total ..	19	27	46	13,531	26,477	40,008	2,09,171	24,458	4,55,629

Note.—The above statement does not include grazing and fodder grass for which details of *quantity* removed are not available.

The free grants are still large in Vizagapatam, the quantities being 415 tons of timber, 553 of firewood and 1,192 of minor produce. The only other district requiring notice in the Northern Circle is Ganjam, where some 1,330 trees were given away for rebuilding houses destroyed by fire. In the Southern Circle, the grants were largest in South Canara (911 tons of timber, value Rs. 3,300) and Salem (518 tons of bamboos, value Rs. 1,460).

18. *Departmental operations.*—The "selection fellings" of the year show a decrease in both circles. The trees felled were:—

	Northern Circle.	Southern Circle.
Teak	222	488
Sal	1,220	...
Eucalyptus	13,857	...
Vengai	...	386
Rosewood	...	168
Miscellaneous	1,519	3,375
Total ...	16,818	4,417

The figures last year were 19,637 and 8,157, respectively. In the former circle, unsatisfactory work was done in Ganjam, where much worthless timber was carted into the depôts,—the question raised by the Conservator of writing off a quantity of

this has been disposed of separately (Board's Proceedings, dated 10th September 1888, Forest No. 481),—and in the Nílgiris, where fellings were slack and made at haphazard: in Sríharikót less fuel was cut, because the Madras market was still glutted with storm wood. The short felling in the Southern Circle occurred in North Malabar where the demand at the usual prices had fallen while there was a large stock on hand.

In the Northern Conservator's report (paragraph 30), it is stated that most of the bamboos (included by him in "selection fellings," but excluded by the Board) were felled in Cuddapah and Bellary; but form 68 does not show any bamboos as having been cut in Bellary. The correct district is Ganjam. This mistake has been followed by the entire omission of the bamboos in form 69.

The timber and other produce collected by the department during the year are compared below:—

	Northern Circle.		Southern Circle.		Total.	
	1886-87.	1887-88.	1886-87.	1887-88.	1886-87.	1887-88.
	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.
Timber	1,051	3,794	5,997	3,432	7,048	7,226
Firewood	24,042	16,493	12,156	9,422	36,198	25,915
Bamboos	450	1,711	200	238	650	1,949
Sandalwood	22	19	14	27	33	46
Minor produce	160	50	382	422	542	472

The total departmental sales of the year from both depôts and forests were as follows:—

	Quantity.			Value.		
	Northern Circle.	Southern Circle.	Total.	Northern Circle.	Southern Circle.	Total.
1	2	3	4	5	6	7
	TONS.	TONS.	TONS.	RS.	RS.	RS.
Timber	2,566	3,992	6,558	47,280	1,08,660	1,55,940
Firewood	10,216	9,758	19,974	54,883	40,729	95,612
Bamboos	1,491½	316	1,807	2,406	852	3,258
Sandalwood	17½	3	20	5,804	690	6,494
Minor produce	33	348	381	4,920	36,438	41,358

	Rate per ton for 1887-88.			Rate per ton for 1886-87.		
	In Northern Circle.	In Southern Circle.	Average.	In Northern Circle.	In Southern Circle.	Average.
	8	9	10	11	12	13
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Timber	18 7 0	27 3 6	22 13 3	17 6 3	20 15 7	19 2 11
Firewood	5 5 11	4 2 9	4 12 4	5 0 1	2 8 7	3 12 4
Bamboos	1 9 9	2 11 1	2 2 5	2 0 0	..	..
Sandalwood	341 6 7	230 0 0	285 11 3	409 1 6	361 3 6	385 2 6
Minor produce	149 1 6	104 11 3	126 14 5	51 10 0	73 7 0	62 8 0

Out of these the following quantities were received into and sold from depôts:—

	Timber.		Firewood.		Bamboos.		Sandalwood.		Minor produce.	
	Received.	Sold.	Received.	Sold.	Received.	Sold.	Received.	Sold.	Received.	Sold.
	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.	TONS.
Northern Circle	2,839	2,456	4,771	6,375	1½	1½	..	..	70¼	42¼
Southern do.	1,787	1,841	2,574	2,633	148	299	27	3	99	100
Total ..	4,626	4,297	7,345	9,008	149½	300½	27	3	175¼	142¼

The stock on hand at sale depôts at the close of the year amounted to—

—	Timber.	Firewood.	Bamboos.	Sandal-wood.	Minor produce.
Northern Circle.. ..	583	719	1½	..	104½
Southern do.	1,527	429	5	36	..
.. Total ..	2,110	1,148	6½	36	104½

the total value being, respectively, Rs. 24,351 and Rs. 53,780, against Rs. 25,091 and Rs. 64,927 last year.

19. *Removals by purchasers themselves.*—By far the largest proportion of the forest revenue comes in under this head; the amounts realized amounting to Rs. 4,43,904 for the Northern Circle and Rs. 6,03,580 for the Southern, against Rs. 4,09,078 and Rs. 5,40,115 last year. In the Northern Circle the receipts were largest in Cuddapah, Kurnool and Godávari. In the last-mentioned district, there was an increase of about Rs. 20,000 over the revenue of last year, due, the Conservator states, to merchants getting over their objection to sale by the cubic foot. In Kurnool, there was a decrease, owing to the introduction of the system of issuing permits for individual trees when standing instead of for the cart-loads when cut. In the Southern Circle the receipts rose by about Rs. 63,465 and the quantity removed was some 13,000 tons more than last year. Madura, Trichinopoly, Salem and North Arcot were the largest contributors.

20. *Financial.*—The results of the year's working are summed up in the following abstract:—

—	Revenue.	Expenditure.			Balance.
		A. Conservancy and Works.	B. Establishments.	Total.	
	Rs.	Rs.	Rs.	Rs.	Rs.
Northern Circle	5,64,723	2,18,009	2,35,785	4,53,794	1,10,929
Southern do.	8,10,197	3,35,437	3,28,981	6,64,418	1,45,779
Total ..	13,74,920	5,53,446	5,64,766	11,18,212	2,56,708

It will thus be seen that there was a balance of Rs. 1,10,929 in favor of the Northern Circle and of Rs. 1,45,779 in favor of the Southern, making a net surplus of a little over the 2½ lakhs required from the department.

This is of course exclusive of capital invested in live stock, tools and plant, acquisition of lands, &c.

The following statement shows the receipts and charges for the six years during which the new system, inaugurated by Dr. Brandis, has been in force, and seeing that Dr. Brandis' forecast was for simple equilibrium only, it may be considered very creditable to the department:—

—	Receipts.	Charges.	Surplus.
	Rs.	Rs.	Rs.
1882-83	9,03,914	6,36,558	2,67,356
1883-84	9,58,991	7,80,916	1,78,075
1884-85	11,62,689	8,84,421	2,78,268
1885-86	11,98,600	9,36,431	2,62,169
1886-87	12,46,783	11,55,687	91,096
1887-88	13,74,920	11,18,212	2,56,708

The following statement shows the actuals compared with the estimates:—

Receipts.

	Northern Circle.			Southern Circle.		
	Revised estimate, 1887-88.	Actuals, 1887-88.	Difference.	Revised estimate, 1887-88.	Actuals, 1887-88.	Difference.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Timber and other produce removed from the forests by Government agency—						
(a) Timber	96,660	37,133	— 59,527	1,86,958	1,10,528	— 76,430
(b) Firewood and charcoal ..	72,080	57,517	— 14,563	43,850	41,668	— 2,182
(c) Bamboos	3,200	2,365	— 835	1,860	805	— 1,055
(d) Sandalwood	10,000	5,804	— 4,196	4,200	690	— 3,510
(e) Grass and other minor produce	9,890	4,920	— 4,970	31,625	36,439	4,814
II. Timber and other produce removed from the forests by consumers or purchasers—						
(a) Timber	1,10,000	1,19,871	9,871	89,300	98,883	9,583
(b) Firewood and charcoal ..	1,14,900	1,01,263	— 13,637	1,67,038	1,58,618	— 8,420
(c) Bamboos	42,700	44,370	1,670	76,025	76,254	229
(d) Grazing and fodder grass.	58,200	59,773	1,573	31,875	46,038	14,163
(e) Other minor produce ..	94,750	1,18,627	23,877	1,94,341	2,23,787	29,446
III. Confiscated, drift and waifwood.	10,230	9,328	— 902	2,916	3,054	138
IV. Revenue from forests not managed by Government ..	..	14	14	..	..	..
V. Miscellaneous—						
(a) Fines and forfeitures ..	310	334	24	1,400	1,573	173
(b) Refunds	570	448	— 122	550	3,402	2,852
(c) Other sources	1,510	2,956	1,446	4,802	8,458	3,656
Total ..	6,25,000	5,64,723	— 60,277	8,36,800	8,10,197	— 26,603

Charges.

	Northern Circle.			Southern Circle.		
	Revised estimate, 1887-88.	Actuals, 1887-88.	Difference.	Revised estimate, 1887-88.	Actuals, 1887-88.	Difference.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I. Timber and other produce removed from the forests by Government agency—						
(a) Timber	36,410	24,246	— 12,164	62,847	45,243	— 17,604
(b) Firewood and charcoal ..	30,350	39,565	9,215	16,405	16,759	354
(c) Bamboos	1,450	1,218	— 232	790	216	— 574
(d) Sandalwood	3,600	3,067	— 533	1,340	1,193	— 147
(e) Grass and other minor produce	7,250	3,056	— 4,194	20,110	28,296	8,186
II. Timber and other produce removed from the forests by consumers or purchasers ..	26,810	24,162	— 2,648	55,729	44,483	— 11,246
III. Confiscated, drift and waifwood	1,570	1,800	230	965	200	— 765
IV. Revenue from forests not managed by Government ..	..	24	24	..	..	..
V. Rent of leased forests and payments to shareholders in forests managed by Government	13,500	13,500	..	4,010	1,943	— 2,067
VI. Live and dead stock—						
(a) Purchase of cattle ..	10,000	..	— 10,000	1,170	4,122	2,952
(b) Feed and keep of cattle ..	2,300	1,336	— 964	8,408	6,583	— 1,825
(c) Stores, tools and plant ..	9,300	3,627	— 5,673	6,560	5,678	— 882
VII. Communications and buildings—						
(a) Roads and bridges ..	21,200	6,879	— 14,321	17,025	14,024	— 3,001
(b) Buildings	31,900	14,604	— 17,296	26,000	17,307	— 8,693
(c) Other works	800	883	83	1,100	1,157	57
VIII. Demarcation, improvement and extension of forests—						
(a) Demarcation	18,600	27,225	8,625	15,628	11,613	— 4,015
(b) Compensation for land and rights	12,400	8,650	— 3,750	6,747	45,723	38,976
(c) Surveys and working-plans	3,450	1,385	— 2,065	7,669	5,864	— 1,805
(d) Plantations	20,300	20,213	— 87	36,763	30,139	— 6,624
(e) Protection from fire ..	15,600	14,449	— 1,151	24,820	20,712	— 4,108
(f) Other works	6,200	5,313	— 887	31,436	26,291	— 5,145

Charges—cont.

—	Northern Circle.			Southern Circle.		
	Revised estimate, 1887-88.	Actuals, 1887-88.	Difference.	Revised estimate, 1887-88.	Actuals, 1887-88.	Difference.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
IX. Miscellaneous—						
(*a*) Refunds	480	1,043	563	965	1,643	678
(*b*) Law charges	440	1,070	630	1,550	2,353	803
(*c*) Other do.	2,090	694	— 1,396	3,263	3,895	632
Total ..	2,76,000	2,18,009	— 57,991	3,51,300	3,35,437	— 15,863
I. Salaries—						
(*a*) Conservators	12,400	12,500	100	17,450	20,401	2,951
(*b*) Superior officers	76,000	75,389	— 611	98,200	1,00,209	2,009
(*c*) Subordinate forest and depôt establishments ..	70,000	64,250	— 5,750	94,500	88,964	— 5,536
(*d*) Office establishments ..	30,000	28,870	— 1,130	44,700	43,580	— 1,120
(*e*) Deputation and special allowance	..	..	..	902	54	— 848
II. Travelling allowances—						
(*a*) Conservators	4,000	3,306	— 694	3,200	3,388	188
(*b*) Superior officers	20,000	18,287	— 1,713	23,000	22,662	— 338
(*c*) Subordinate forest and depôt establishments ..	19,000	17,400	— 1,600	29,000	26,952	— 2,048
(*d*) Office establishments ..	4,520	4,781	261	7,200	6,233	— 967
III. Contingencies—						
(*a*) Stationery	190	67	— 123	266	63	— 203
(*b*) Carriage of tents and records	1,660	1,475	— 185	2,903	2,052	— 851
(*c*) Rents, rates and taxes ..	875	897	22	1,349	1,418	69
(*d*) Pay of police guards ..	..	..	..	..	..	..
(*e*) Official postage	2,375	3,073	698	5,720	5,449	— 271
(*f*) Sundries	4,980	5,490	510	10,110	7,556	— 2,554
Total ..	2,46,000	2,35,785	— 10,215	3,38,500	3,28,981	— 9,519
Total of A, Conservancy and works ..	2,76,000	2,18,009	— 57,991	3,51,300	3,35,437	— 15,863
Grand Total of all expenditure ..	5,22,000	4,53,794	— 68,206	6,89,800	6,64,418	— 25,382

It will be seen that the revenue did not come up to the revised estimates of the year in either circle. The difference was larger in the Northern Circle than in the Southern, which fell off only by Rs. 26,600. The chief deficits occurred in Ganjam, Nellore, Kurnool and Nílgiris. In the first-named district the season for work was lost by the absence of a District Forest-officer during part of the time. Nellore firewood is still unable to find a market owing to the large stock of stormwood with which the local depôts are glutted. The non-realization of sums due from the Bellary-Kistna Railway is said to account for the short receipt in Kurnool. In the Nílgiris the budget was exaggerated.

The difference in expenditure was also great in the Northern Circle, and was mainly due to non-utilization of allotments. In Ganjam it was under Timber and Roads and has been already explained; in Godávari it was due to the non-purchase of elephants; in Nellore it was due to delay in indenting for a tramway and in settling compensation for claims to trees in the Srí harikota reserves; in Kurnool it was under Roads and Buildings, and included non-payment for the head-quarter's bungalow; in Nílgiris it was due to slack fellings of timber and abandonment of the proposed site for a bungalow at Mudumalai as being unhealthy.

In the Southern Circle, the difference was not large and requires no special notice. There was a falling off under I (*a*) Rs. 17,604, II Rs. 11,246 and VII (*b*) Rs. 8,693, but this was more than compensated by the increase under I (*e*) Rs. 8,186 and VIII (*b*) Rs. 38,976. During the year the Amarampalem forest estate was purchased at a court sale for Rs. 42,000 odd. The absence of officers on leave caused savings under B. in both circles.

Compared with last year, the expenditure under A and B was as follows :—

	Northern Circle.			Southern Circle.		
	1886-87.	1887-88.	Difference.	1886-87.	1887-88.	Difference.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
A	2,20,443	2,18,009	— 2,434	3,80,192	3,35,437	— 44,755
B	2,14,523	2,35,785	+ 21,262	3,40,529	3,28,081	— 11,548
Total ..	4,34,966	4,53,794	+ 18,828	7,20,721	6,64,418	— 56,303

The following statement shows the ledger account of each district :—

Districts.	Receipts.	Charges.	Surplus.	Districts.	Receipts.	Charges.	Surplus.
	Rs.	Rs.	Rs.		Rs.	Rs.	Rs.
Cuddapah	1,45,202	75,070	70,132	Tinnevelly	56,794	45,996	10,798
Salem	1,26,409	60,413	65,996	Anantapur	19,655	14,030	5,625
North Arcot	1,05,904	56,546	49,358	Tanjore	9,327	6,931	2,396
Coimbatore, North ..	83,541	34,545	48,996	Chingleput .. .	20,153	18,003	2,150
Godávari	70,323	28,276	42,047	South Canara	57,194	56,084	1,110
South Arcot	91,212	50,237	40,975	Malabar, North	28,160	28,980	— 820
Kistna	77,665	36,966	40,699	Bellary	28,860	30,841	— 1,981
Kurnool	78,157	40,003	38,154	Vizagapatam	5,389	7,687	— 2,298
Nellore	80,290	58,957	21,333	Ganjam	20,079	40,115	— 20,036
Madura	58,609	38,227	20,382	Nilgiris	39,076	63,760	— 24,684
Coimbatore, South ..	72,284	58,964	13,320	Malabar, South	50,082	92,098	— 42,016
Trichinopoly	50,387	37,637	12,750				

21. *General.*—Excluding the unsatisfactory work in Ganjam and Nílgiris, the Board think that the year's working may be considered good. Steady progress is being made in reservation and settlement, rough working-plans are taking the place of the wasteful permit system, fire-protection is becoming something more than a mere name and forests are being opened out with roads and buildings. Grazing is also being brought under control and made to pay. Colonel C. Walker visited five districts and Mr. Cherry three in the Southern Circle, and Mr. Peet visited nine districts in the Northern Circle. District Forest-officers also travelled well ; Messrs. Hooper, Homfray, Somers-Smith and Somasundra Mudaliar heading the list for time spent in camp. As usual, the want of superior officers was much felt, Vizagapatam and Anantapur having no proper District Forest-officers at all, and Ganjam being placed for six months under a Sub-Assistant ; the lower grades are, however, being gradually strengthened by the appointment of men trained at the Dehra Dun School.

The Board regret the delay in the submission of this report. The Southern Circle Conservator's report was only received on 1st October last and his appendix on exotics not till 30th idem. In addition to this, the mistakes in the Northern Circle report have been most numerous and the necessary correction and ascertainment of correct figures in the Board's office have necessarily taken much time.

(True Copies and Extract.)

(Signed) H. A. SIM,
Acting Secretary.

To the Secretary to Government, Revenue Department,
with two reports, and a map (to be returned).

Copy to the Conservator of Forests, Southern Circle.
„ to the Conservator of Forests, Northern Circle.
„ to all Collectors.
„ to the Examiner of Forest Accounts.

Order—dated 5th March 1889, No. 153, Revenue.

Forest, No. 16.

With their Proceedings read above, the Board of Revenue submit the annual reports of the Conservators of Forests on the administration of the Forest Department during the year 1887-88.

2. These reports, together with the Board's review of them, should reach the Government on or before the 1st September, but they have never been submitted till some months after that date, and the explanations offered have invariably been unsatisfactory. If the books of the District and Central offices are kept with care and the entries regularly posted up to date, it ought to be quite possible for the District officers to submit full reports and accurate statements by the 15th of May, and the Conservators should then be able to despatch their reports before the 15th of July. The Board will submit a special report on the subject and endeavour to suggest a radical cure for this chronic delay.

The defective nature and the general inaccuracy of the report of the Northern Circle have on previous occasions been noticed by the Board, the Government and the Government of India, and His Excellency the Governor in Council regrets to find that there has been no improvement in this respect. The numerous errors, both in the statements and in the body of the report, can only be due to want of ordinary care, and, although the fault may originally rest with District Forest officers, His Excellency in Council must hold the Conservator mainly responsible for the many defects which detract so largely from the value of his report.

3. *Area of Forests.*—The following statement shows the extent of the forests administered by the department and the changes that have occurred in the area during the year:—

Class of forests.	Area on 31st March 1887		Added during the year.	Excluded during the year.	Difference.	Area on 31st March 1888.	
	As given in the report for 1886-87.	As since corrected.					
Northern Circle.							
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	
A. Reserved forests under Act V.	474	475	150	..	+ 150	625	From B and D.
B. Reserved forests under previous rules.	787	786	..	17	— 17	769	17 to A. This is also included in the area transferred from D to A.
C. Leased forests ..	198	199	..	..	..	199	
D. Reserved lands ..	3,837	6,329	235	200	+ 35	6,364	150 to A. Fifty excluded at settlement.
E. Other forests	..	..	..	..	..	..	
F. Unclassed forests and waste lands.	..	..	..	..	..	..	
Total ..	5,296	7,789	385	217	+ 168	7,957	
Southern Circle.							
A. Reserved forests under Act V.	1,838	1,813	560	..	+ 560	2,373	From D.
B. Reserved forests under previous rules.	280	262	..	18	— 18	244	To D.
C. Leased forests ..	49	46	..	..	..	46	
D. Reserved lands ..	3,655	4,454	1,242	560	+ 682	5,136	560 transferred to A, 18 transferred from B, 15 from E, and 1,209 from F.
E. Other forests	1,099	1,099	166	15	+ 151	1,250	166 from F. 15 to D.
F. Unclassed forests and waste lands.	..	..	..	..	..	..	
Total ..	6,921	7,674	1,968	593	+ 1,375	9,049	
Grand Total ..	12,217	15,463	2,353	810	+ 1,543	17,006	

The area given in column 3 differs in some cases very widely from that shown in the preceding column. The most striking variations are under the head of reserved lands, the real area of which was very much understated in the reports for 1886-87, owing, in the Southern Circle, to a very considerable error in estimating the actual extent and in the Northern Circle, to the omission of over 2,000 square miles of forest of this class. The Government are unable to accept with confidence even the revised figures now given, for the area shown, under B in the Northern Circle appears to be included under D also, and the Conservator, Southern Circle, seems himself to have some doubt as to the propriety of his classification in respect of the extent under E. The Board should make further inquiries on these two points and every endeavour should be made to furnish correct figures with the reports for 1888-89. The alterations which may be found necessary should also be fully explained, and the tables appended to the report should be consistent with one another and with the statements made in the text.

The actual addition to the area of reserved forests during the year was 560 square miles in the Southern and 150 square miles in the Northern Circle, or a total of 710 square miles against 685 square miles in 1886-87. The area of all classes of forests under the control of the department on the 31st March 1888 was 17,006 square miles, the real net addition during the year, as distinguished from increase due to mere correction of area, being 1,543 square miles.

4. In his review of the reports for 1886-87, His Excellency the Governor in Council directed that he should be furnished with a detailed report of the forest requirements of each district and of the measures which it was proposed to take to meet them, but up to the present these instructions have not been complied with in a single instance; yet it is clear from the annexed statement that much still remains to be done, and the Government trust that the Board will not suffer any further delay to occur in the disposal of this important matter.

Districts.	Total area excluding feudatory and tributary states.	Area excluding zemindaries and whole inam villages.	Cultivated area.	Remainder.			Forests under the control of the Forest Department.	Percentage of column 8 to column 3.	Percentage of column 8 to column 7.
				Uncultivated and forest.	Area for which returns are not available.	Total of columns 5 and 6.			
1	2	3	4	5	6	7	8	9	10
	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.	SQ. MLS.		
Ganjam	8,369	2,273	571	380	1,319	1,699	557	24·5	32·7
Vizagapatam	16,902	1,864	188	107	1,568	1,675	8	·4	·5
Godávari	7,857	3,713	1,451	1,771	791	2,262	776	20·9	34·3
Kistna	8,397	5,481	2,957	2,391	134	2,525	555	15·6	33·8
Nellore	8,765	4,044	1,528	2,516	..	2,516	744	18·4	29·5
Cuddapah	8,722	7,494	1,937	5,557	..	5,557	2,287	30·5	41·1
Anantapur	5,274	4,307	1,724	2,220	362	2,582	261	6·0	10·1
Bellary	5,606	4,158	2,216	1,940	..	1,940	264	6·3	13·6
Kurnool	7,769	5,919	1,788	4,132	..	4,132	1,718	29·0	41·6
Chingleput	2,842	2,051	907	1,106	..	1,106	155	7·5	14·0
North Arcot	7,497	3,768	1,263	2,505	..	2,505	861	22·8	34·3
South Arcot	5,140	4,860	2,152	2,707	..	2,707	1,068	22·0	39·4
Tanjore	3,654	2,204	1,674	810	..	810	28	1·2	3·4
Trichinopoly	4,732	2,532	1,633	899	120	1,019	236	9·3	23·1
Madura	8,658	3,193	1,503	1,260	430	1,690	692	21·6	40·9
Tinnevelly	5,387	3,518	2,242	1,276	..	1,276	607	17·2	47·7
Coimbatore	7,860	7,173	3,683	2,392	1,099	3,491	2,518	35·1	72·1
Nflgiris	957	957	293	664	..	664	487	50·9	73·3
Salem	7,724	5,580	1,959	3,622	..	3,622	1,010	18·1	27·8
South Canara	3,902	3,882	625	3,257	..	3,257	1,020	26·3	31·3
Malabar	5,584	5,565	1,376	4,188	..	4,188	864	15·3	20·4
Total ..	141,687	84,536	33,769	45,400	5,823	51,223	17,006	20·1	33·2

5. *Settlement.*—The area finally settled during the year is, of course, the same as the addition to reserved forests, and has been given above; but this does not adequately represent the settlement work actually done, as final notifications had not been issued at the close of the year for many of the blocks which had then been completely settled. So far as can be gathered from the information furnished by the Conservators

the progress made was good in the Southern but less satisfactory in the Northern Circle. For the latter circle the area which was settled by the end of the year but not notified, is not given, and this makes it difficult to judge of the real work done. It would be convenient if tables similar to those given in paragraphs 7 and 8 of Mr. Cherry's report were in future compiled for both circles. It is observed that in his report for 1886-87 the Conservator, Southern Circle, stated that the settlement of 1,016 square miles had been practically completed by the end of that year, yet the total area finally notified in 1887-88 was only 560 square miles. This, taken in conjunction with the fact that there is still a very large extent which has been settled but for which notifications have not yet been issued, points to great delay in the preparation or transmission of the necessary reports and draft notifications. In order to get some idea of the real position of affairs, the Government desire to be furnished with a statement of all reserves of which the settlement has been completed but for which notifications have not yet been issued. The statement should show the dates of completion of settlement, expiry of appeal time, and receipt of the report and notification by the Collector, the Conservator and the Board.

Neither the Board's review nor the reports give any definite account of the work done by each of the four Special Forest Settlement officers, nor has the statement called for in paragraph 2 of G.O., dated 27th July 1888, No. 516, Revenue, been furnished. His Excellency in Council is thus unable to review the work of these officers, and the question of their retention after the expiry of the present sanction must be disposed of separately. The matter is one of some urgency and the two statements required by the Government should be submitted by the Board with the least possible delay.

6. *Demarcation.*—The following table shows the extent of boundary demarcated and its cost. Neither of the Conservators is able to frame any reliable estimate of the work remaining to be done.

—	Up to 1886-87.			1886-87.			1887-88.			Total.		
	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Average cost per mile.	Miles.	Cost.	Average cost per mile.
		Rs.	Rs. A. P.		Rs.	Rs. A. P.		Rs.	Rs. A. P.		Rs.	Rs. A. P.
Northern Circle ..	1,029	24,117	19 15 2	1,003	19,202	19 2 3	1,645	27,225	16 8 9	3,677	70,544	19 2 11
Southern Circle ..	3,178	35,247	11 1 5	1,134	8,735	7 11 2	1,701	11,613	6 13 2	6,013	55,595	9 3 11
Total ..	4,207	59,364	14 1 9	2,137	27,937	13 1 2	3,346	38,838	11 9 8	9,690	126,139	13 0 3

His Excellency in Council regards the progress made as extremely satisfactory, the amount of work done being particularly good in Nellore, Godávari and Kistna in the Northern Circle and in North Arcot and Salem in the Southern. Now that the survey of the forests is to be systematically taken in hand, the demarcation must be steadily pushed forward and the Conservators should direct their special attention to the subject. The cost of demarcation per mile was less than in the previous year in both circles, but in the Northern Circle it is still too high and endeavours should be made to reduce it. The Government await the report promised by the Conservator on the mismanagement that has taken place in the construction of walls in Anantapur.

7. *Surveys.*—The Conservator, Northern Circle, states in paragraph 17 of his report that there were no survey operations in his circle during the year, but he mentions in the preceding paragraph that a fire-protected block was surveyed and plotted by Mr. Hearsey. In the Southern Circle 117 square miles were surveyed by the Forest Department, but the result is said to be unsatisfactory and the whole of what has hitherto been done will have to be done over again by the Madras Party of the Survey of India who, under recent arrangements, have undertaken the forest survey

of the Presidency. This party worked in Madura in the year under review and completed the survey of eight square miles on the scale required by the Forest Department. It also surveyed 245 square miles on the one-inch scale which is not large enough for forest purposes. This mistake appears to have arisen from a most regrettable misunderstanding on the part of Colonel Campbell Walker. In order that some progress may be made with survey in the Northern Circle, it has been decided that the Madras Survey Party now working in Bellary and Anantapur should survey the forests of those districts. The Government consider that the admittedly useless departmental surveys should now be discontinued unless arrangements can be made for securing greater accuracy.

8. *Working Plans.*—Much could not be done in the way of preparation of satisfactory working plans as no regular survey of forest areas has been made; and the selection and settlement of reserves take up most of the time of the establishment. If the proposals for strengthening the superior staff which His Excellency in Council has submitted to the Government of India are sanctioned, it will be possible to form a special Working Plans Party which will follow in the wake of the surveyors and assist the local officers in drawing up schemes for the proper working of the forests.

9. *Fire Protection.*—There was a very satisfactory improvement both in the area over which protection was attempted and in the success obtained, the results in the latter respect being particularly good in the Southern Circle.

Circle.	Area attempted.				Percentage of area attempted in which protection was successful.			
	1884-85.	1885-86.	1886-87.	1887-88.	1884-85.	1885-86.	1886-87.	1887-88.
	Sq. mls.	Sq. mls.	Sq. mls.	Sq. mls.				
Northern	720	728	1,168	1,320	97	96	87	92
Southern	744	906	1,081	1,250	96	98	96	99
Total ..	1,464	1,634	2,249	2,570	97	97	91	95

The total cost was Rs. 35,161 or an average of Rs. 13·7 per square mile. The Government observe that, in the Bombay Presidency, nearly the whole of the area under the control of the Forest Department is specially protected from fire, and this, too, at the very small cost of two annas per square mile. The Conservators should endeavour to ascertain under what arrangements this singularly satisfactory result is obtained.

10. *Grazing.*—The revenue from grazing fees has risen from Rs. 81,203 to Rs. 1,05,811 or by 30 per cent., and this gratifying increase appears to have been obtained without the infliction of any heavy additional tax. His Excellency in Council notices with approval Mr. Hooper's judicious action in levying at first a fee of only one anna per head per annum, and he commends this course to the favorable attention of all Collectors. The fee may be subsequently increased but this should not be done too rapidly and the amount of each increment should be small. Where the area of unreserved land available for pasture is comparatively limited free grazing must be provided for the cattle required for agricultural or domestic purposes, and the Government observe with satisfaction that this point has not been lost sight of by Mr. Cherry. As the policy of charging fees is more generally introduced this matter will become of increasing importance, and great care will be necessary on the part of Collectors and District Forest officers to prevent reasonable discontent being caused in those localities where the pasture lands have all been brought under control although the

free and unrestricted use of them by the villagers' cattle has hitherto been customary. It is clear that the ryots are already beginning to appreciate the advantages to themselves of conservation and control, and if the wise and cautious policy of the past few years is steadily maintained the Government do not doubt that in a comparatively short time cattle-owners will be converted from an attitude of distrust, if not actual hostility, into one of hearty co-operation.

His Excellency in Council regards the results which have been obtained during 1887-88 in dealing with this difficult question as one of the most satisfactory features of the year's working.

11. *Forest Offences.*—The number of forest offences reported in each of the past four years is shown below :—

Circle.	1884-85.	1885-86.	1886-87.	1887-88.
Northern	757	848	994	1,455
Southern	1,007	1,154	1,339	1,644
Total ..	1,764	2,002	2,333	3,099

It will be seen that there was a considerable increase in the year under review but it is only to be expected that with the steady extension of conservation the offences brought to notice should be more numerous. Two-thirds of the offences were under the head of "unauthorized felling or removal of timber or forest produce," but in the Southern Circle the number of cases of grazing without permission was comparatively large. Of the cases, which were taken before the courts, 75 per cent.* resulted in convictions, which is an improvement upon the proportion in the previous year (67 per cent.), and is decidedly satisfactory. The figures for each circle are—

* If the 25 cases which were withdrawn be included, the percentage is 74.

	1886-87.	1887-88.
Northern Circle	65	72
Southern Circle	70	77

The number of cases compounded has increased from 571 to 787. The Government presume that the acquitted case which was shown under the head of "compounded" is one which, when taken before the compounding officer, was found to be false or at least not proven. There must be a number of such cases and it would be interesting if they were shown separately. The officers who are empowered to compound should not presume that the case against every accused person who is willing to compound is necessarily a true one, but he should carefully examine the record and ascertain whether it discloses a *primâ facie* case. It is perhaps unnecessary to add that any tendency to send up cases which are obviously so weak as to be quite untenable in a court should be promptly checked.

12. *Natural Reproduction.*—The fact that if a forest is carefully protected from fire and excessive grazing, reproduction will proceed satisfactorily without artificial planting or sowing, is now so generally established that it is only necessary to draw attention to exceptions to this rule and to endeavour to ascertain the causes of failure. In the majority of cases these causes are to be found in the non-fulfilment of the conditions required for success, viz., the exclusion of fire and the prevention of excessive grazing, but the reports give instances where failure cannot be explained in this way and where other reasons for it must be sought for. Thus, in the Anamalai forests of South Coimbatore the young seedlings have not succeeded in pushing their way through the strong coarse grass which has grown vigorously in the absence of fire and grazing. In the report for 1886-87 it was stated that this difficulty was being overcome, but it now appears that these hopes of success were premature. In Anantapur the dying off in the hot weather of the seedlings which had sprung up in the rainy season was

remarked upon in the review of the reports for 1886-87, and the experiment of closing a few areas against both grazing and the cutting of grass was recommended. This suggestion was of course too late to be acted upon in 1887-88 but Mr. Peet proposes to give effect to it. In meeting difficulties of this kind the experience of the Inspector-General of Forests with the Government of India would be of great value, and His Excellency in Council feels sure that any requests from Conservators for advice and assistance would be cordially and promptly complied with by Mr. Ribbentrop.

Before leaving this subject His Excellency the Governor in Council thinks it advisable to point out that it is not the wish of the Government that attempts should be made to grow high forest on the whole of the reserves and reserved lands. Many of them are primarily needed as pasture grounds, and in the case of such areas grazing requirements must not be sacrificed to the necessities of natural reproduction.

13. *Artificial Reproduction.*—The areas under regular plantations and cultural operations increased during the year by 802 and 488 acres, respectively. The extension was chiefly made in Nellore, North Malabar, Trichinopoly and South Arcot in the case of the former, and in Cuddapah, Nellore, Tinnevelly and North Malabar in that of the latter. The expenditure shows an increase under plantations and a decrease under cultural operations. During the year under review the results of artificial reproduction were discouraging in the Northern Circle and not altogether satisfactory in the Southern Circle. In Nellore the ravages of some insect which has not yet been identified seem to have caused most serious damage to the plantations. The Government have read with much interest Mr. Peet's remarks on the subject of the continuous planting of a single species of tree. The matter will no doubt receive the attention of Mr. Gamble who has now resumed charge of the circle.

	Area.		Cost.	
	1886-87.	1887-88.	1886-87.	1887-88.
Plantations.			Rs.	Rs.
Northern Circle ..	6,423	7,092	9,191	14,729
Southern Circle ..	11,786	11,919	29,275	24,609
Total ..	18,209	19,011	38,466	39,338
Cultural Operations.				
Northern Circle ..	878	977	1,662	1,394
Southern Circle ..	2,972	3,361	3,634	1,978
Total ..	3,850	4,338	5,296	3,372

14. *Exotics.*—The Board have given an interesting summary of the reports of the Conservators on exotics and His Excellency in Council has little to add to their remarks. The year's operations affirm the conclusion stated by Government in the review of the reports for 1886-87 that the cultivation of the date-palm has in this Presidency passed the experimental stage and may now be conducted on an extensive scale. It is said that the seeds of date fruits bought in the bazaars have been found to give good results, but in October 1888 Mr. Hadfield, the officer who made the experiments with this kind of seed, reported that 50 per cent. of the plants put out had died. It is not impossible that as good seed may be obtained in the West Coast bazaars as that imported by Mr. Duthie from Arabia, but until this is proved by experiment no large area should be planted with it. The Government have already issued orders to this effect. It is noted with satisfaction that the mahogany has, on the whole, thriven well in the Southern Circle.

15. *Communications and Buildings.*—A considerable proportion of the budget allotment under this head has been, as in previous years, left unutilized. In fact, the percentage of unexpended balance was considerably higher than in the preceding year. Employment of the establishment on settlement and demarcation cannot, as was observed by Government in the review of the last report, be accepted as a sufficient explanation of the short expenditure. The working of the Nellore portable tramway and the possibility of introducing this means of carriage more extensively should have been noticed by the Conservators. It is gathered from other papers that the Nellore line, which is $2\frac{3}{4}$ miles in length, has been most successful. The cost of transport has

	Revised estimate.	Actuals.	Percentage of unexpended balance.
	Rs.	Rs.	
1886-87 ...	78,311	51,719	34
1887-88 ...	98,025	54,854	44

thereby been reduced from one rupee to two annas per ton, and the greater facility for working is said to be in itself sufficient to render its use profitable, for the damage which was caused by carts to the stools left for coppice, and the difficulty experienced, when carts were employed, in getting out the necessary quantity of wood during the working season have both disappeared. These results were rightly regarded as so encouraging as to justify the introduction of portable tramways into other districts, and during the current year lines have been laid in South Coimbatore (7 miles) and North Arcot (2 miles), while an additional length of 5½ miles has been purchased for Nellore.

16. *Yield and Working.*—The quantity of every kind of produce has been given in tons, but in G.O., dated 1st August 1887, No. 741, Revenue, it was ordered, in compliance with the wishes of the Government of India, that the outturn of timber and fuel should be stated in cubic feet. There seems, too, to be some little doubt regarding the scale of conversion employed by the Conservator, Northern Circle, for though in one place he gives 50 cubic feet as the equivalent of a ton, yet the entries of eighths of a ton would seem to indicate the use of a different rate. In these circumstances His Excellency in Council considers that it would be unsafe to accept the figures as they stand, and he resolves to request each Conservator to furnish a statement showing for 1886-87 and 1887-88 the yield of timber and fuel in cubic feet, of minor produce in maunds of 25 lb., and of bamboos by number. The various code forms must be very carefully examined and all inconsistencies satisfactorily cleared up. The yield should be shown under the three heads of "Government agency," "Private purchasers" and "Free grants." The statement should be prepared and submitted with as little delay as is possible in order that it may be transmitted to the Government of India in time to be incorporated in the "Review of Forest Administration in British India."

17. *Financial Results.*—The actual receipts and disbursements of the year fell short of the revised estimates as usual, the receipts being less by Rs. 86,880 and the expenditure by Rs. 93,588. Compared with the figures of the previous year, however, the financial results of the working of the department show an improvement, the surplus having increased from Rs. 91,096 to Rs. 2,46,403 :—

	Northern Circle.		Southern Circle.		Total.	
	1886-87.	1887-88.	1886-87.	1887-88.	1886-87.	1887-88.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Receipts	5,52,248	5,64,723	6,94,535	8,10,197	12,46,783	13,74,920
Charges	4,34,966	4,53,794	7,20,721	6,74,723	11,55,687	11,28,517
Surplus...	+ 1,17,282	+ 1,10,929	— 26,186	+ 1,35,474	+ 91,096	+ 2,46,403
Percentage ..	+ 27	+ 24	— 3	+ 20	+ 8	+ 22

The charges as given above exceed those given by the Board and Conservators by Rs. 10,305, which is the amount charged for work done by the Survey of India. The steady advance in revenue, which has been continuous for the past five years, was maintained, while the charges showed a slight decrease. The expenditure included Rs. 42,000 for the purchase of a valuable forest in Malabar, at least Rs. 40,000 on account of settlement, about Rs. 56,000 for demarcation and survey, and Rs. 54,000 on communications. These are all items of which the greater part would be debited to capital account if that distinction were made, and when once the forests are settled, demarcated and surveyed and provided with good roads the total expenditure will probably be less than it is now, even if the staff be considerably augmented, while the income may be relied upon to rise much higher as the forests are brought under systematic working. The district which yielded the largest surplus was Cuddapah (Rs. 70,132), Salem being next with Rs. 65,996. The highest rate of profit was

realized in the Godávari (150 per cent.), while in each of the marginally noted districts it was over 100 per cent. In Cuddapah the rate was 93 per cent. As already explained in the review of the budget the deficit of Rs. 42,016 in South Malabar is almost entirely due to the expenditure (Rs. 42,000) on the purchase of the Amarampalan forests. The deficits of Rs. 20,000 in Ganjam and of Rs. 24,000 in Nílgiris are most disappointing and are largely, if not entirely, due to unsatisfactory administration.

	Per cent.
North Coimbatore	140
Kistna	110
Salem	110

18. *General.*—His Excellency the Governor in Council considers that, on the whole, the work done during the year may be regarded as very satisfactory. There was an improvement in the extent added to the area of reserved forests, and if there had not been so much delay in the submission of the settlement records and draft notifications, the addition would have been much greater; demarcation made good progress, and though but little was done in the way of surveys and the preparation of working plans this was not the fault of the department; the advance towards the final solution of the difficult grazing question was particularly satisfactory, while the attempts to protect the forests from fire were both more extensive and more successful than in the previous year; there was an increase in the number of forest offences reported, but this is probably due to improved detection; the progress made with the construction of roads and buildings, though somewhat better than in 1886-87, still leaves much to be desired, but the remarks of Government on the results of that year can only begin to bear fruit during 1888-89; the subject of the yield of the forests will be dealt with in a subsequent order on receipt of the special report called for, but it may be gathered that it was generally fair with the exception of the regrettable failures in Ganjam and the Nílgiris; the superior officers appear to have travelled well, especially those mentioned in paragraph 24 of the Board's Proceedings, and the year seems to have been a healthy one on the whole; lastly the financial results of the administration showed a great improvement, the surplus revenue being 170 per cent. in excess of that obtained in 1887-88.

19. The year 1887-88 completes the first *quinquennium* since the reorganization, which was initiated by the visit of Dr. (now Sir Dietrich) Brandis and the passing of the Forest Act in 1882 but did not come fully into operation until 1883-84. During this period of five years the area under the control of the Forest Department increased from 2,794* to 17,006 square miles, of which 2,998 were formally reserved, while over a great portion of the remainder conservation was nearly as strict as in the case of reserved forests. It is evident, too, that this control was something more than nominal, for the revenue derived from forests has risen from Rs. 9,03,914 to Rs. 13,74,920. Sir Dietrich Brandis estimated the receipts at Rs. 9,00,000 per annum for the first five years, and he put the charges at the same figure, but instead of merely paying its way the department has, during the period in question, earned a net income, aggregating Rs. 10,66,316. How far the increased revenue indicates merely better systems of working resulting in greater receipts from purely commercial transactions and how far it consists of what is practically additional taxation, it is not possible to ascertain with any accuracy. Receipts from timber, bamboos and sandalwood might perhaps be classed under the former head and those from firewood and charcoal and grazing and fodder grass under the latter. But there still remains the most important item of minor produce, and this it is impossible to classify in the above manner. There can, however, be but little doubt that a considerable portion of the increased revenue is due to a charge being made for produce which was formerly enjoyed free and it is well to remember this fact in considering proposals for sudden additions

* Includes area under the old jungle conservancy, but not the Nallamalais or the Nílgiri slopes towards Coimbatore.

Timber, Bamboos, &c.

	Rs.
1887-88	4,96,703
1882-83	4,24,699
Increase ...	72,004

Firewood and Charcoal.

	Rs.
1887-88	3,59,066
1882-83	2,13,154
Increase ...	1,45,912

Grazing and Fodder Grass.

		Rs.
1887-88	... ...	1,05,811
1882-83	... ...	85,329
	Increase ...	20,482

Other Minor Produce.

		Rs.
1887-88	... ...	3,83,773
1882-83	... ...	1,47,432
	Increase ...	2,36,341

to fees or the withdrawal of privileges which have long existed. At the same time His Excellency in Council entertains no doubt that the disposal of the forest produce of the State forms a legitimate source of revenue, and it must be remembered that the increased expenditure which has accompanied the increased revenue *pari passu* has been incurred for improvements to the sources of supply of pasture and of fuel which are not only advantageous but absolutely necessary to the interests of the ryots.

(True Extract.)

(Signed) C. A. GALTON,
Secretary to Government.

To the Commissioners of Land Revenue.
„ the Commissioner of Revenue Settlement, Land Records and Agriculture.
„ the Superintendent of Revenue Survey.
„ the Superintendent, Government Central Museum.
„ the Government Botanist.
„ the Accountant-General.

No. 153-A, Revenue.

Copy to the Government of India, Revenue and Agricultural Department.

(Signed) C. A. GALTON,
Secretary to Government.